



A CMS Energy Company

Environmental Services

April 27, 2012

Mr. Shane Nixon  
Michigan Department of Environmental Quality  
Air Quality Division  
120 W. Chapin Street  
Cadillac, MI 49601-2158

**SUBJECT: FIRST QUARTER 2012 EMISSIONS MONITORING REPORT**

Dear Mr. Nixon:

Enclosed is the First Quarter 2012 emissions monitoring report for Boilers No. 1 and No. 2 at the T.E.S. Filer City Station (Renewable Operating Permit No. ROP MI-ROP-N1685-2008a). The report includes all information required under Federal Standards of Performance for New Stationary Sources (40 CFR 60, Subparts A, Da, and Appendix F).

This quarterly report contains the Excess Emissions Reports (EERs) and Summary Reports for Boilers No. 1 and No. 2. The report also includes the results of linearity tests conducted in accordance with 40 CFR Part 75, Appendices A and B (all outlet CEMS other than CO), and cylinder gas audits (CGAs) conducted in accordance with 40 CFR Part 60, Appendix F (inlet CEMS and outlet CO CEMS). The associated Certificates of Analysis for the calibration gases used in the linearity tests and CGAs are also included within this quarterly report.

When reviewing the CO CGA test results for the 1<sup>st</sup> quarter of 2012, it should be noted that the calibration gases which were used to conduct these tests were not at the required 20-30% and 50-60% of the CO CEMS span of 500 ppm. The plant is in the process of instituting dual range operation for the CO CEMS, and the new low span will be 300 ppm while the high span will be 3,000 ppm. The plant inadvertently installed calibration gas cylinders with CO concentrations reflective of the intended CO low span, and the gases used for the CGA tests contained CO at 74.5 ppm (24.8% of 300 ppm, 14.9% of 500 ppm) and 161.4 ppm (53.8% of 300 ppm, 32.3% of 500 ppm). While the plant had not yet initiated dual range operation for the CO CEMS at the time of the CGA tests, the CO gas concentrations used for these tests are reflective of the observed CO concentrations for Boilers 1 and 2 during the 1<sup>st</sup> quarter of 2012. Specifically, the observed CO concentrations for each of the boilers were as follows: Boiler 1 = average CO concentration of 71.9 ppm, with 94.4% of all values  $\leq$  161.4 ppm; Boiler 2 = average CO concentration of 69.3 ppm, with 97.2% of all values  $\leq$  161.4 ppm. Thus, TES Filer City Station is confident that the CGA results still demonstrate proper operation of the CO CEMS at the typical measurement values encountered during the calendar quarter.

No construction/demolition (C/D) materials were fired in Boilers No. 1 and No. 2 during the 1<sup>st</sup> quarter of 2012. In accordance with the currently approved C/D Waste Wood Monitoring Plan, the facility has discontinued submitting a summary of C/D waste wood sampling and inspection activities on a quarterly basis. An annual C/D summary report will be included with the quarterly report submitted for the 4<sup>th</sup> quarter of 2012.

Please contact me at (517) 788-1467 or Mr. Richard Brown of TES Filer City Station at (231) 723-6573, Extension 103, if you have any questions or require further information concerning the contents of this quarterly report.

Sincerely,



Jason Prentice  
Environmental Planner  
Consumers Energy Company

cc: Richard Brown, TES Filer City Station  
Karen Kajiya-Mills, MDEQ-AQD  
Filer City Compliance File-Q, SA, A File



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
AIR QUALITY DIVISION

**RENEWABLE OPERATING PERMIT  
REPORT CERTIFICATION**

*Authorized by 1994 P.A. 451, as amended. Failure to provide this information may result in civil and/or criminal penalties.*

Reports submitted pursuant to R 336.1213 (Rule 213), subrules (3)(c) and/or (4)(c), of Michigan's Renewable Operating Permit (ROP) program must be certified by a responsible official. Additional information regarding the reports and documentation listed below must be kept on file for at least 5 years, as specified in Rule 213(3)(b)(ii), and be made available to the Department of Environmental Quality, Air Quality Division upon request.

Source Name T.E.S. Filer City Station County Manistee  
Source Address P.O. Box 12 / 700 Mee Street City Filer City  
AQD Source ID (SRN) N1685 ROP No. MI-ROP-N1685-2008a ROP Section No. N/A

Please check the appropriate box(es):

☐ **Annual Compliance Certification (Pursuant to Rule 213(4)(c))**

Reporting period (provide inclusive dates): From \_\_\_\_\_ To \_\_\_\_\_

- ☐ 1. During the entire reporting period, this source was in compliance with **ALL** terms and conditions contained in the ROP, each term and condition of which is identified and included by this reference. The method(s) used to determine compliance is/are the method(s) specified in the ROP.
- ☐ 2. During the entire reporting period this source was in compliance with all terms and conditions contained in the ROP, each term and condition of which is identified and included by this reference, **EXCEPT** for the deviations identified on the enclosed deviation report(s). The method used to determine compliance for each term and condition is the method specified in the ROP, unless otherwise indicated and described on the enclosed deviation report(s).

☐ **Semi-Annual (or More Frequent) Report Certification (Pursuant to Rule 213(3)(c))**

Reporting period (provide inclusive dates): From \_\_\_\_\_ To \_\_\_\_\_

- ☐ 1. During the entire reporting period, **ALL** monitoring and associated recordkeeping requirements in the ROP were met and no deviations from these requirements or any other terms or conditions occurred.
- ☐ 2. During the entire reporting period, all monitoring and associated recordkeeping requirements in the ROP were met and no deviations from these requirements or any other terms or conditions occurred, **EXCEPT** for the deviations identified on the enclosed deviation report(s).

☒ **Other Report Certification**

Reporting period (provide inclusive dates): From 01/01/2012 To 03/31/2012

Additional monitoring reports or other applicable documents required by the ROP are attached as described:

Boilers 1 and 2 Quarterly Report for the 1<sup>st</sup> Quarter of 2012 (January – March).

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this report and the supporting enclosures are true, accurate and complete

Henry M. Hoffman General Manager 231-723-6573  
Name of Responsible Official (print or type) Title Phone Number  
Henry M. Hoffman 4-24-12  
Signature of Responsible Official Date

**T.E.S. FILER CITY STATION**

**CONTINUOUS EMISSION MONITORING QUARTERLY REPORT**

**SUBPART Da  
(NSPS SOURCES)**

**Year 2012**

**Report Period Ending:**    **March 31**   X      **June 30**           **Sept. 30**           **Dec. 31**       

**I. GENERAL INFORMATION**

1. Source: T.E.S. FILER CITY STATION

2. Address: 700 MEE STREET  
FILER CITY, MICHIGAN 49634

3. Plant Phone Number: (231) 723-6573

4. Affected Facility:    **BOILER #1**   X                        **BOILER #2**   X  

5. Control Device(s):    **GEESI/DRY FLUE GAS DESULFERIZATION SYSTEM**  
                                 **GEESI/FABRIC FILTER BAGHOUSES**

6. Fuel Type: Coal/Wood/TDF/Petroleum Coke/Construction & Demolition (C/D) Waste  
(NOTE: Although allowed by permit, C/D wastes were not fired during the quarter)

**7. Person Completing Report**

(Print)                      Jason M. Prentice

(Signature)              *Jason M. Prentice*

(Date)                      4-27-12

This is to certify that, to the best of my knowledge, the information provided on these forms is correct and accurate.

**8. Person Responsible For Review and Integrity of Report:**

(Print)                      Henry M. Hoffman

(Signature)              *Henry M. Hoffman*

(Date)                      4-24-12



# T.E.S. FILER CITY STATION

## II. CONTINUOUS MONITOR OPERATIONAL DATA

	# 1 OPACITY	# 2 OPACITY	INLET #1 SO2	INLET #2 SO2	STACK #1 SO2	STACK #2 SO2	STACK #1 NOx	STACK #2 NOx	STACK #1 CO	STACK #2 CO	INLET # 1 CO2	INLET # 2 CO2	STACK # 1 CO2	STACK # 2 CO2
1. MFG:	Durag, Inc.	Durag, Inc.	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>
2. MODEL NO:	D-R 290	D-R 290	43i	43i	43i	43i	42i	42i	48i	48i	410i	410i	410i	410i
3. SERIAL NO:	425692	425693	0622717879	0622717883	0622717877	0622717880	0623017966	0623017967	0622717887	0622717888	0622717873	0622717875	0622717869	0622717874
4. Basis for Gas Measurement (wet or dry)	N / A	N / A	WET	WET	WET	WET	WET	WET	WET	WET	WET	WET	WET	WET
5. F-Factor Used	N / A	N / A	F <sub>c</sub> ≈ 1,800 scf/mm Btu	F <sub>c</sub> ≈ 1,800 scf/mm Btu	F <sub>c</sub> ≈ 1,800 scf/mm Btu	F <sub>c</sub> ≈ 1,800 scf/mm Btu	F <sub>c</sub> ≈ 1,800 scf/mm Btu	F <sub>c</sub> ≈ 1,800 scf/mm Btu	F <sub>c</sub> ≈ 1,800 scf/mm Btu	F <sub>c</sub> ≈ 1,800 scf/mm Btu	N / A	N / A	N / A	N / A

<sup>1</sup> T. E. I. standards for Thermo Environmental Instruments, Inc.

6. F-Factor Method: Fuel Analyses and Method 19, Equation 19-15 and/or Method 19, Table 19-2. Please note that the fuel factors are unit specific and are based upon the relative amounts (on a heat input basis) of coal, wood, petroleum coke and tire-derived-fuel (TDF) that are fired within a given time period.

7. Ave. Time	6 Minute	6 Minute	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour
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8. Zero/Span  
Values

ZERO	0 %	0 %	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 %	0 %	0 %	0 %
SPAN	45 %	45 %	2,000 PPM	2,000 PPM	H: 1,500 PPM <sup>1</sup> L: 200 PPM <sup>1</sup>	H: 1,500 PPM <sup>1</sup> L: 200 PPM <sup>1</sup>	500 PPM	500 PPM	500 PPM	500 PPM	20.0 %	20.0 %	20.0 %	20.0 %

<sup>1</sup> The span values for the SO<sub>2</sub> Stack CEMS were revised from 2,000 ppm for the high span and 500 ppm for the low span just prior to the September 2008 Part 75 certification tests. The revised high and low span values were determined in accordance with sections 2.1.1.3 and 2.1.1.4 of Appendix A to 40 CFR Part 75.

## T.E.S. FILER CITY STATION

### II. CONTINUOUS MONITOR OPERATIONAL DATA

9. Date of Last Performance Specification Test Passed	Monitoring System	RATA	7-Day Calibration Drift Test	Cycle-time Test	COMS Field Audit Test	COMS 168-hr Operational Test
	Boiler 1 Gas CEMS	08/23/2011	10/31/2006 (Stk SO <sub>2</sub> = 09/25/08)	10/18/2006 (Stk SO <sub>2</sub> = 10/03/08)	N/A	N/A
	Boiler 1 COMS	N/A	N/A	N/A	08/25/2011	10/26/2006
	Boiler 2 Gas CEMS	08/24/2011	10/31/2006 (Stk SO <sub>2</sub> = 09/25/08)	10/23/2006 (Stk SO <sub>2</sub> = 10/03/08)	N/A	N/A
	Boiler 2 COMS	N/A	N/A	N/A	08/25/2011	11/01/2006

10. Modification Since Last PST Date (10-06; 9-08)	# 1 OPACITY	# 2 OPACITY	INLET #1 SO2	INLET #2 SO2	STACK #1 SO2	STACK #2 SO2	STACK #1 NOx	STACK #2 NOx	STACK #1 CO	STACK #2 CO	INLET # 2 CO2	INLET # 2 CO2	STACK #1 CO2	STACK # 2 CO2
	NONE	NONE	NONE	NONE	NONE (Changed high & low span values)	NONE (Changed high & low span values)	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE

11. Emission Limits (Averaging Period)	10 % (6-Min)	10 % (6-Min)	N / A	N / A	0.7 lb/mm Btu (24-Hr) 0.5 lb/mm Btu (30-Day)	0.7 lb/mm Btu (24-Hr) 0.5 lb/mm Btu (30-Day)	0.6 lb/mm Btu (30-Day)	0.6 lb/mm Btu (30-Day)	0.3 lb/mm Btu (24-Hour)	0.3 lb/mm Btu (24-Hour)	N / A	N / A	N / A	N / A

**T.E.S. FILER CITY STATION****III. MONITORING AND COMPLIANCE SUMMARY (per 40 CFR 60.51a(h))**

	<u>YES</u>	<u>NO</u>	<u>REF.</u>
1. Were the required continuous monitoring systems calibrated, span, and drift checks or other periodic audits performed as specified?	<u>X</u>	<u>          </u>	<u>          </u>
2. Were the data used to show compliance obtained in accordance with approved methods and procedures of Subpart Da?	<u>X</u>	<u>          </u>	<u>          </u>
3. Are the data representative of plant performance?	<u>X</u>	<u>          </u>	<u>          </u>
4. Were the minimum data requirements met? If no, were they not met due to unavoidable errors?	<u>X</u>	<u>          </u>	<u>          </u>
5. Was compliance with the standards achieved during the reporting period?	<u>          </u>	<u>X</u>	<u>          </u>

**Boiler #1**

SO <sub>2</sub> Stack Limit 0.7 lb/MMBTU 24 Hour	<u>X</u>	<u>          </u>	<u>          </u>
SO <sub>2</sub> Stack Limit 0.5 lb/MMBTU 30 Day	<u>X</u>	<u>          </u>	<u>          </u>
SO <sub>2</sub> 90% Reduction 30 Day	<u>X</u>	<u>          </u>	<u>          </u>
NO <sub>x</sub> Stack Limit 0.6 lb/MMBTU 30 Day	<u>X</u>	<u>          </u>	<u>          </u>
Opacity Limit >10% 6 Minute Average	<u>          </u>	<u>X</u>	<u>          </u>

**Boiler #2**

SO <sub>2</sub> Stack Limit 0.7 lb/MMBTU 24 Hour	<u>X</u>	<u>          </u>	<u>          </u>
SO <sub>2</sub> Stack Limit 0.5 lb/MMBTU 30 Day	<u>X</u>	<u>          </u>	<u>          </u>
SO <sub>2</sub> 90% Reduction 30 Day	<u>X</u>	<u>          </u>	<u>          </u>
NO <sub>x</sub> Stack Limit 0.6 lb/MMBTU 30 Day	<u>X</u>	<u>          </u>	<u>          </u>
Opacity Limit >10% 6 Minute Average	<u>          </u>	<u>X</u>	<u>          </u>

**T.E.S. FILER CITY STATION****V. EXCESS EMISSION REPORT - SO<sub>2</sub> AND NO<sub>x</sub>****SO<sub>2</sub> EVENTS (30 Day Rolling Average Limit of 0.5 lb/MMBTU)**

Date(s) Occurred	Boiler No.	Value (lb/mm Btu)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

**SO<sub>2</sub> EVENTS (24 Hour Average Limit of 0.7 lb/MMBTU)**

Date(s) Occurred	Boiler No.	Value (lb/mm Btu)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

**SO<sub>2</sub> EVENTS (30 Day Rolling Average Limit of SO<sub>2</sub> Percent Reduction: Limit=90%)**

Date(s) Occurred	Boiler No.	Value (% removal)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

**NO<sub>x</sub> EVENTS (30 Day Rolling Average Limit of 0.60 lb/MMBTU)**

Date(s) Occurred	Boiler No.	Value (lb/mm Btu)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

**OPACITY EVENTS (Excess Emission Notification >10%, 6-Min. Average, for ≥ 2 Hours)**

Date(s) Occurred	Boiler No.	Value (% opacity)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

NOTE: All six minute periods during which the average opacity exceeds 10% are identified in the attached monthly "Excess Emissions Report" for Boiler #1 and Boiler #2.

**T.E.S. FILER CITY STATION****VI. QUALITY ASSURANCE DATA****1a. OUT-OF-CONTROL ASSESSMENT INFORMATION****BOILER # 1****INLET CO<sub>2</sub> METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717873	None	N / A	N / A

**STACK CO<sub>2</sub> METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717869	None	N / A	N / A

**INLET SO<sub>2</sub> METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717879	None	N / A	N / A

**STACK SO<sub>2</sub> METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717877	None	N / A	N / A

## T.E.S. FILER CITY STATION

### STACK NO<sub>x</sub> METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 42i – 0623017966	None	N / A	N / A

### OPACITY METER

Meter	Date(s) Occurred	Description	Corrective Action
D-R 290 – 425692	None	N / A	N / A

2a. Other operating days for which data has not been obtained (18 hrs) or excluded from calculation of average emission rates:

Boiler #1

Date(s) Occurred	Description	Corrective Action
None	N / A	N / A

### 3a. OUT-OF-CONTROL ASSESSMENT INFORMATION

Any Boiler 1 CEMS and COMS out-of-control (OOC) periods are generally associated with equipment replacements or excessive calibration drift (CD) error, and they are summarized in Section VI.1a of this report. During this quarter, there were no OOC periods associated with Relative Accuracy Test Audits (RATAs), Cylinder Gas Audits (CGAs), Linearity Tests or CD Error Tests.

When applicable, the duration of each OOC period or other periods of downtime are summarized in the quarterly report document titled “Downtime Report”. The information provided in Section VI.1a of this report provides a summary of the OOC period corrective actions. When required, the corrective actions result in the CDs (or relative accuracies) being within the allowed limits.

**T.E.S. FILER CITY STATION****1b. OUT-OF-CONTROL ASSESSMENT INFORMATION****BOILER # 2****INLET CO<sub>2</sub> METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717875	None	N / A	N / A

**STACK CO<sub>2</sub> METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717874	None	N / A	N / A

**INLET SO<sub>2</sub> METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717883	None	N / A	N / A

**STACK SO<sub>2</sub> METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717880	None	N / A	N / A

## T.E.S. FILER CITY STATION

### STACK NO<sub>x</sub> METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 42i – 0623017967	None	N / A	N / A

### OPACITY METER

Meter	Date(s) Occurred	Description	Corrective Action
D-R 290 – 425693	None	N / A	N / A

2b. Other operating days for which data has not been obtained (18 hrs) or excluded from calculation of average emission rates:

Boiler #2

Date(s) Occurred	Description	Corrective Action
None	N / A	N / A

### 3b. OUT-OF-CONTROL ASSESSMENT INFORMATION

Any Boiler 2 CEMS and COMS out-of-control (OOC) periods are generally associated with equipment replacements or excessive calibration drift (CD) error, and they are summarized in Section VI.1a of this report. During this quarter, there were no OOC periods associated with Relative Accuracy Test Audits (RATAs), Cylinder Gas Audits (CGAs), Linearity Tests or CD Error Tests.

When applicable, the duration of each OOC period or other periods of downtime are summarized in the quarterly report document titled “Downtime Report”. The information provided in Section VI.1b of this report provides a summary of the OOC period corrective actions. When required, the corrective actions result in the CDs (or relative accuracies) being within the allowed limits.



## T.E.S. FILER CITY STATION

4. Full Scale Exceedance: Identification of times when pollutant concentration exceeds full span of the continuous monitoring system.

Date(s) Occurred	Boiler No.	Description	Corrective Action
None	1	N / A	N / A
None	2	N / A	N / A

# TES FILER CITY STATION AIR EMISSION SUMMARY

JANUARY 2012

	OPACITY			SULFUR DIOXIDE									NITROGEN OXIDES		
	<6 MINUTE AVE OF 10 %			<24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			<30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			>90% SO2 REDUCTION LIMIT 30 DAY AVE			<30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
MONTH	44628 /	44640	99.97%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%
YTD			99.97%			100.00%			100.00%			100.00%			100.00%
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
MONTH	44610 /	44640	99.93%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%
YTD			99.93%			100.00%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH

24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING

ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

# TES FILER CITY STATION AIR EMISSION SUMMARY

**FEBRUARY 2012**

	<b>OPACITY</b> <6 MINUTE AVE OF 10 %			<b>SULFUR DIOXIDE</b> <24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU									<b>NITROGEN OXIDES</b> <30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
<b>BOILER #1</b>															
MONTH	41712 /	41760	99.89%	696.0 /	696.0	100.00%	696.0 /	696.0	100.00%	696.0 /	696.0	100.00%	696.0 /	696.0	100.00%
YTD			99.93%			100.00%			100.00%			100.00%			100.00%
<b>BOILER #2</b>															
MONTH	41724 /	41760	99.91%	696.0 /	696.0	100.00%	696.0 /	696.0	100.00%	696.0 /	696.0	100.00%	696.0 /	696.0	100.00%
YTD			99.92%			100.00%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH

24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING

ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

# TES FILER CITY STATION AIR EMISSION SUMMARY

MARCH 2012

	OPACITY			SULFUR DIOXIDE									NITROGEN OXIDES		
	<6 MINUTE AVE OF 10 %			<24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			<30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			>90% SO2 REDUCTION LIMIT 30 DAY AVE			<30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HR	BLR FIRING HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP
MONTH	44634 /	44640	99.99%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%
YTD			99.95%			100.00%			100.00%			100.00%			100.00%
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HR	BLR FIRING HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP
MONTH	44580 /	44640	99.87%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%
YTD			99.90%			100.00%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH

24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING

ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

# TES FILER CITY STATION AIR EMISSION SUMMARY

**1<sup>st</sup> QUARTER 2012**

	OPACITY			SULFUR DIOXIDE									NITROGEN OXIDES		
	<6 MINUTE AVE OF 10 %			<24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			<30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			>90% SO2 REDUCTION LIMIT 30 DAY AVE			<30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
JAN	44,628 /	44,640	99.97%	744 /	744	100.00%	744 /	744	100.00%	744 /	744	100.00%	744 /	744	100.00%
FEB	41,712 /	41,760	99.89%	696 /	696	100.00%	696 /	696	100.00%	696 /	696	100.00%	696 /	696	100.00%
MAR	44,634 /	44,640	99.99%	744 /	744	100.00%	744 /	744	100.00%	744 /	744	100.00%	744 /	744	100.00%
1 <sup>st</sup> Quarter	130,974 /	131,040	99.95%	2184 /	2184	100.00%	2184 /	2184	100.00%	2184 /	2184	100.00%	2184 /	2184	100.00%
YTD			99.95%			100.00%			100.00%			100.00%			100.00%
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
JAN	44,610 /	44,640	99.93%	744 /	744	100.00%	744 /	744	100.00%	744 /	744	100.00%	744 /	744	100.00%
FEB	41,724 /	41,760	99.91%	696 /	696	100.00%	696 /	696	100.00%	696 /	696	100.00%	696 /	696	100.00%
MAR	44,580 /	44,640	99.87%	744 /	744	100.00%	744 /	744	100.00%	744 /	744	100.00%	744 /	744	100.00%
1 <sup>st</sup> Quarter	130,914 /	131,040	99.90%	2184 /	2184	100.00%	2184 /	2184	100.00%	2184 /	2184	100.00%	2184 /	2184	100.00%
YTD			99.90%			100.00%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH

24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING

ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

# CEMS Daily Averages - 01/01/12 To 03/31/12

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Period: 01/01/12 00:00:00 To 03/31/12 23:59:59; Records = 91

Date	Operating Hours CEMS	NOx		SO2		SO2		SO2		Blr 1&2	
		30-Day		24-Hr		30-Day		30-Day		SO2	
		lb/mmBt	Vld	lb/mmBt	Vld	lb/mmBt	Vld	% Red.	Vld	Tons	Vld
01/01/12	24	0.338	30	0.201	24	0.180	30	92.44	29	2.09	24
01/02/12	24	0.338	30	0.207	24	0.182	30	92.40	29	1.82	24
01/03/12	24	0.339	30	0.249	24	0.185	30	92.29	29	2.41	24
01/04/12	24	0.339	30	0.211	24	0.186	30	92.27	29	2.00	24
01/05/12	24	0.339	30	0.192	24	0.187	30	92.21	29	1.74	24
01/06/12	24	0.338	30	0.191	24	0.188	30	92.18	29	1.86	24
01/07/12	24	0.338	30	0.190	24	0.189	30	92.21	29	2.06	24
01/08/12	24	0.339	30	0.236	24	0.190	30	92.22	29	2.34	24
01/09/12	24	0.339	30	0.207	24	0.192	30	92.22	29	2.09	24
01/10/12	24	0.340	30	0.227	24	0.194	30	92.21	29	2.24	24
01/11/12	24	0.340	30	0.182	24	0.193	30	92.29	29	1.79	24
01/12/12	24	0.340	30	0.246	24	0.196	30	92.22	29	2.33	24
01/13/12	24	0.340	30	0.209	24	0.197	30	92.21	29	2.21	24
01/14/12	24	0.340	30	0.276	24	0.201	30	92.11	29	2.73	24
01/15/12	24	0.341	30	0.206	24	0.203	30	92.11	29	1.89	24
01/16/12	24	0.341	30	0.237	24	0.205	30	92.07	29	2.06	24
01/17/12	24	0.341	30	0.241	24	0.208	30	92.01	29	2.16	24
01/18/12	24	0.341	30	0.202	24	0.211	30	91.95	29	1.76	24
01/19/12	24	0.341	30	0.216	24	0.212	30	91.91	29	2.13	24
01/20/12	24	0.341	30	0.197	24	0.212	30	91.96	29	1.94	24
01/21/12	24	0.340	30	0.222	24	0.214	30	91.93	29	2.14	24
01/22/12	24	0.339	30	0.221	24	0.217	30	91.83	29	2.07	24
01/23/12	24	0.339	30	0.232	24	0.220	30	91.71	29	1.76	24
01/24/12	24	0.339	30	0.209	24	0.219	30	91.71	29	2.17	24
01/25/12	24	0.338	30	0.124	24	0.216	30	91.78	29	1.22	24
01/26/12	24	0.338	30	0.165	24	0.214	30	91.77	30	2.10	24
01/27/12	24	0.338	30	0.166	24	0.209	30	91.85	30	1.34	24
01/28/12	24	0.338	30	0.210	24	0.208	30	91.86	30	1.89	24
01/29/12	24	0.338	30	0.222	24	0.209	30	91.85	30	2.00	24
01/30/12	24	0.339	30	0.180	24	0.209	30	91.84	30	1.66	24
01/31/12	24	0.339	30	0.162	24	0.208	30	91.90	30	1.41	24
02/01/12	24	0.338	30	0.158	24	0.206	30	91.95	30	1.64	24
02/02/12	24	0.337	30	0.243	24	0.206	30	91.95	30	2.08	24
02/03/12	24	0.337	30	0.223	24	0.206	30	91.92	30	1.86	24
02/04/12	24	0.337	30	0.159	24	0.205	30	91.95	30	1.52	24
02/05/12	24	0.338	30	0.173	24	0.205	30	91.94	30	1.55	24

Date	Operating Hours		NOx		SO2		SO2		SO2		Blr 1&2	
	CEMS		30-Day		24-Hr		30-Day		30-Day		SO2	
			lb/mmBt	Vld	lb/mmBt	Vld	lb/mmBt	Vld	% Red.	Vld	Tons	Vld
02/06/12	24		0.338	30	0.181	24	0.204	30	91.90	30	1.59	24
02/07/12	24		0.339	30	0.205	24	0.203	30	91.85	30	1.87	24
02/08/12	24		0.339	30	0.183	24	0.202	30	91.82	30	1.73	24
02/09/12	24		0.340	30	0.186	24	0.201	30	91.82	30	1.76	24
02/10/12	24		0.341	30	0.221	24	0.202	30	91.72	30	2.07	24
02/11/12	24		0.341	30	0.189	24	0.201	30	91.75	30	2.02	24
02/12/12	24		0.340	30	0.149	24	0.199	30	91.78	30	1.32	24
02/13/12	24		0.340	30	0.179	24	0.195	30	91.85	30	1.53	24
02/14/12	24		0.340	30	0.191	24	0.195	30	91.81	30	1.76	24
02/15/12	24		0.340	30	0.183	24	0.193	30	91.83	30	1.66	24
02/16/12	24		0.340	30	0.174	24	0.191	30	91.87	30	1.60	24
02/17/12	24		0.339	30	0.165	24	0.190	30	91.87	30	1.60	24
02/18/12	24		0.338	30	0.187	24	0.189	30	91.83	30	1.75	24
02/19/12	24		0.338	30	0.169	24	0.188	30	91.79	30	1.67	24
02/20/12	24		0.338	30	0.181	24	0.186	30	91.78	30	1.68	24
02/21/12	24		0.338	30	0.185	24	0.185	30	91.78	30	1.65	23
02/22/12	24		0.338	30	0.149	24	0.182	30	91.91	30	1.32	24
02/23/12	24		0.338	30	0.145	24	0.180	30	91.97	30	1.39	24
02/24/12	24		0.338	30	0.158	24	0.181	30	91.89	30	1.44	24
02/25/12	24		0.339	30	0.180	24	0.182	30	91.88	30	1.57	24
02/26/12	24		0.340	30	0.115	24	0.180	30	91.96	30	1.09	24
02/27/12	24		0.341	30	0.131	24	0.177	30	92.04	30	1.71	24
02/28/12	24		0.342	30	0.137	24	0.175	30	92.09	30	1.44	24
02/29/12	24		0.343	30	0.345	24	0.180	30	91.78	30	2.63	24
03/01/12	24		0.345	30	0.148	24	0.180	30	91.73	30	1.43	24
03/02/12	24		0.345	30	0.274	24	0.184	30	91.53	30	2.11	24
03/03/12	24		0.346	30	0.184	24	0.182	30	91.58	30	1.83	24
03/04/12	24		0.347	30	0.199	24	0.181	30	91.59	30	1.96	24
03/05/12	24		0.347	30	0.292	24	0.185	30	91.43	30	2.61	24
03/06/12	24		0.348	30	0.136	24	0.184	30	91.50	30	1.36	24
03/07/12	24		0.348	30	0.175	24	0.184	30	91.54	30	1.54	24
03/08/12	24		0.348	30	0.215	24	0.184	30	91.56	30	2.12	24
03/09/12	24		0.348	30	0.227	24	0.186	30	91.53	30	2.08	24
03/10/12	24		0.348	30	0.194	24	0.186	30	91.55	30	1.92	24
03/11/12	24		0.349	30	0.181	24	0.185	30	91.62	30	1.84	24
03/12/12	24		0.349	30	0.118	24	0.182	30	91.73	30	1.40	24
03/13/12	24		0.350	30	0.170	23	0.183	30	91.71	30	1.77	23
03/14/12	24		0.350	30	0.141	24	0.182	30	91.77	30	1.58	24
03/15/12	24		0.350	30	0.150	24	0.180	30	91.85	30	1.40	24
03/16/12	24		0.351	30	0.192	24	0.181	30	91.85	30	1.76	24

Date	Operating Hours		NOx		SO2		SO2		SO2		Blr 1&2	
	CEMS		30-Day		24-Hr		30-Day		30-Day		SO2	
			lb/mmBt	Vld	lb/mmBt	Vld	lb/mmBt	Vld	% Red.	Vld	Tons	Vld
03/17/12	24		0.351	30	0.154	24	0.180	30	91.91	30	1.61	24
03/18/12	24		0.352	30	0.190	24	0.181	30	91.90	30	1.87	24
03/19/12	24		0.352	30	0.203	24	0.181	30	91.95	30	2.06	24
03/20/12	24		0.353	30	0.177	24	0.182	30	91.99	30	1.96	24
03/21/12	24		0.354	30	0.167	24	0.181	30	92.05	30	1.54	24
03/22/12	24		0.355	30	0.196	24	0.181	30	92.06	30	1.80	24
03/23/12	24		0.356	30	0.167	24	0.182	30	92.05	30	1.59	24
03/24/12	24		0.357	30	0.178	24	0.183	30	92.01	30	1.86	24
03/25/12	24		0.359	30	0.160	24	0.183	30	92.05	30	1.57	24
03/26/12	24		0.360	30	0.152	24	0.182	30	92.11	30	1.55	24
03/27/12	24		0.361	30	0.166	24	0.184	30	92.06	30	1.76	24
03/28/12	24		0.362	30	0.165	24	0.185	30	92.04	30	1.51	24
03/29/12	24		0.363	30	0.144	24	0.185	30	92.05	30	1.33	24
03/30/12	24		0.363	30	0.150	24	0.179	30	92.37	30	1.27	24
03/31/12	24		0.364	30	0.123	24	0.178	30	92.44	30	1.12	24



# CEMS Daily Averages - 01/01/12 To 03/31/12

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Period: 01/01/12 00:00:00 To 03/31/12 23:59:59; Records = 91

Date	Operating Hours		NOx		SO2		SO2		SO2		
	CEMS		30-Day		24-Hr		30-Day		30-Day		
			lb/mmBt	Vld	lb/mmBt	Vld	lb/mmBt	Vld	% Red.	Vld	
01/01/12	24		0.349	30	0.241	24	0.194	30	92.06	30	0.00
01/02/12	24		0.349	30	0.175	24	0.193	30	92.11	30	0.00
01/03/12	24		0.349	30	0.251	24	0.197	30	92.00	30	0.00
01/04/12	24		0.349	30	0.210	24	0.198	30	91.95	30	0.00
01/05/12	24		0.349	30	0.180	24	0.198	30	91.99	30	0.00
01/06/12	24		0.348	30	0.209	24	0.199	30	91.98	30	0.00
01/07/12	24		0.348	30	0.248	24	0.202	30	91.91	30	0.00
01/08/12	24		0.348	30	0.256	24	0.204	30	91.89	30	0.00
01/09/12	24		0.347	30	0.238	24	0.205	30	91.93	30	0.00
01/10/12	24		0.347	30	0.252	24	0.207	30	91.94	30	0.00
01/11/12	24		0.347	30	0.203	24	0.208	30	91.94	30	0.00
01/12/12	24		0.346	30	0.257	24	0.210	30	91.90	30	0.00
01/13/12	24		0.345	30	0.264	24	0.214	30	91.83	30	0.00
01/14/12	24		0.346	30	0.301	24	0.219	30	91.73	30	0.00
01/15/12	24		0.345	30	0.193	24	0.221	30	91.72	30	0.00
01/16/12	24		0.344	30	0.203	24	0.223	30	91.69	30	0.00
01/17/12	24		0.343	30	0.226	24	0.225	30	91.63	30	0.00
01/18/12	24		0.342	30	0.172	24	0.225	30	91.69	30	0.00
01/19/12	24		0.340	30	0.237	24	0.225	30	91.70	30	0.00
01/20/12	24		0.341	30	0.216	24	0.228	30	91.65	30	0.00
01/21/12	24		0.342	30	0.232	24	0.230	30	91.62	30	0.00
01/22/12	24		0.342	30	0.220	24	0.230	30	91.60	30	0.00
01/23/12	24		0.341	30	0.140	24	0.227	30	91.67	30	0.00
01/24/12	24		0.341	30	0.247	24	0.224	30	91.72	30	0.00
01/25/12	24		0.341	30	0.131	24	0.222	30	91.79	30	0.00
01/26/12	24		0.340	30	0.280	24	0.223	30	91.66	30	0.00
01/27/12	24		0.339	30	0.122	24	0.219	30	91.76	30	0.00
01/28/12	24		0.339	30	0.193	24	0.217	30	91.80	30	0.00
01/29/12	24		0.339	30	0.205	24	0.216	30	91.80	30	0.00
01/30/12	24		0.339	30	0.172	24	0.216	30	91.84	30	0.00
01/31/12	24		0.338	30	0.138	24	0.212	30	91.97	30	0.00
02/01/12	24		0.337	30	0.185	24	0.213	30	91.95	30	0.00
02/02/12	24		0.337	30	0.192	24	0.211	30	92.00	30	0.00
02/03/12	24		0.337	30	0.168	24	0.209	30	92.04	30	0.00
02/04/12	24		0.337	30	0.160	24	0.209	30	92.04	30	0.00
02/05/12	24		0.338	30	0.154	24	0.207	30	92.08	30	0.00

Date	Operating Hours		NOx		SO2		SO2		SO2		
	CEMS		30-Day		24-Hr		30-Day		30-Day		
			lb/mmBt	Vld	lb/mmBt	Vld	lb/mmBt	Vld	% Red.	Vld	
02/06/12	24		0.338	30	0.157	24	0.204	30	92.15	30	0.00
02/07/12	24		0.339	30	0.193	24	0.202	30	92.18	30	0.00
02/08/12	24		0.340	30	0.185	24	0.200	30	92.20	30	0.00
02/09/12	24		0.341	30	0.188	24	0.198	30	92.22	30	0.00
02/10/12	24		0.342	30	0.222	24	0.198	30	92.16	30	0.00
02/11/12	24		0.344	30	0.238	24	0.198	30	92.13	30	0.00
02/12/12	24		0.345	30	0.132	24	0.193	30	92.26	30	0.00
02/13/12	24		0.346	30	0.151	24	0.188	30	92.41	30	0.00
02/14/12	24		0.347	30	0.190	24	0.188	30	92.37	30	0.00
02/15/12	24		0.347	30	0.174	24	0.187	30	92.36	30	0.00
02/16/12	24		0.348	30	0.171	24	0.185	30	92.39	30	0.00
02/17/12	24		0.348	30	0.180	24	0.186	30	92.35	30	0.00
02/18/12	24		0.349	30	0.185	24	0.184	30	92.38	30	0.00
02/19/12	24		0.349	30	0.184	24	0.183	30	92.35	30	0.00
02/20/12	24		0.348	30	0.178	24	0.181	30	92.36	30	0.00
02/21/12	24		0.347	30	0.187	23	0.180	30	92.38	30	0.00
02/22/12	24		0.348	30	0.135	24	0.180	30	92.38	30	0.00
02/23/12	24		0.348	30	0.152	24	0.177	30	92.46	30	0.00
02/24/12	24		0.349	30	0.150	24	0.177	30	92.41	30	0.00
02/25/12	24		0.350	30	0.148	24	0.173	30	92.58	30	0.00
02/26/12	24		0.351	30	0.111	24	0.173	30	92.60	30	0.00
02/27/12	24		0.352	30	0.227	24	0.174	30	92.51	30	0.00
02/28/12	24		0.353	30	0.161	24	0.172	30	92.52	30	0.00
02/29/12	24		0.354	30	0.215	24	0.174	30	92.39	30	0.00
03/01/12	24		0.355	30	0.155	24	0.174	30	92.32	30	0.00
03/02/12	24		0.356	30	0.180	24	0.174	30	92.27	30	0.00
03/03/12	24		0.357	30	0.200	24	0.174	30	92.24	30	0.00
03/04/12	24		0.357	30	0.206	24	0.176	30	92.18	30	0.00
03/05/12	24		0.358	30	0.252	24	0.179	30	92.07	30	0.00
03/06/12	24		0.357	30	0.145	24	0.178	30	92.08	30	0.00
03/07/12	24		0.357	30	0.152	24	0.178	30	92.09	30	0.00
03/08/12	24		0.356	30	0.229	24	0.179	30	92.03	30	0.00
03/09/12	24		0.355	30	0.204	24	0.180	30	92.02	30	0.00
03/10/12	24		0.355	30	0.204	24	0.181	30	92.00	30	0.00
03/11/12	24		0.353	30	0.204	24	0.180	30	92.03	30	0.00
03/12/12	24		0.351	30	0.174	24	0.178	30	92.12	30	0.00
03/13/12	24		0.350	30	0.214	23	0.181	30	92.02	30	0.00
03/14/12	24		0.350	30	0.188	24	0.182	30	91.95	30	0.00
03/15/12	24		0.349	30	0.146	24	0.180	30	92.00	30	0.00
03/16/12	24		0.349	30	0.177	24	0.180	30	92.01	30	0.00

Date	Operating Hours		NOx		SO2		SO2		SO2		
	CEMS		30-Day		24-Hr		30-Day		30-Day		
			lb/mmBt	Vld	lb/mmBt	Vld	lb/mmBt	Vld	% Red.	Vld	
03/17/12	24		0.349	30	0.184	24	0.181	30	92.00	30	0.00
03/18/12	24		0.349	30	0.202	24	0.182	30	91.98	30	0.00
03/19/12	24		0.348	30	0.230	24	0.183	30	91.94	30	0.00
03/20/12	24		0.347	30	0.232	24	0.185	30	91.91	30	0.00
03/21/12	24		0.347	30	0.158	24	0.184	30	91.96	30	0.00
03/22/12	24		0.347	30	0.182	24	0.184	30	91.97	30	0.00
03/23/12	24		0.348	30	0.169	24	0.185	30	91.93	30	0.00
03/24/12	24		0.348	30	0.223	24	0.187	30	91.85	30	0.00
03/25/12	24		0.349	30	0.176	24	0.188	30	91.86	30	0.00
03/26/12	24		0.350	30	0.175	24	0.189	30	91.84	30	0.00
03/27/12	24		0.350	30	0.210	24	0.192	30	91.73	30	0.00
03/28/12	24		0.349	30	0.162	24	0.190	30	91.84	30	0.00
03/29/12	24		0.349	30	0.138	24	0.189	30	91.88	30	0.00
03/30/12	24		0.349	30	0.121	24	0.186	30	92.04	30	0.00
03/31/12	24		0.349	30	0.115	24	0.185	30	92.13	30	0.00

Continuous Emission Monitor Quarterly Report Summary  
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 Opacity

Emission Limitation: 10

Reporting Period Dates: From 1/01/2012 To 3/31/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/25/11

Total Source Operating Time in Reporting Period: 21840 periods

CEMS Performance Summary	Total CEMS Downtimes including exemptions	
	Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	10	0.05
3. Calibration/QA	8	0.04
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	18	0.08

Durations in 6-minute periods

(1) % Unavailable is calculated by the following formula:

% Unavailable = CEMS Downtime during Source Operating Time/ Source Operating Time x 100

Emission Data Summary		
1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	11	0.05
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	11	0.05

Durations in 6-minute periods

(2) % Excess Emissions is calculated by the following formulas:

% Excess Emissions = Total Duration of Excess Emissions/ Source Operating Time x 100

On a separate page, describe any changes since last reporting period in CMS, process or controls.

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this report are true, accurate, and complete.

Jason M. Prentice

NAME

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4-27-12

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Continuous Emission Monitor Quarterly Report Summary  
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 NOx lb/mmBtu 30-Day  
Emission Limitation: 0.60  
Reporting Period Dates: From 1/01/2012 To 3/31/2012

---

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

---

Date of Last CEMS Certification or Audit: 08/23/11

Total Source Operating Time in Reporting Period: 2184 hours

---

CEMS Performance Summary	Total CEMS Downtimes including exemptions	
		%
1. CEMS downtime in reporting period due to:	Duration	Unavailable (1)
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	1	0.05
3. Calibration/QA	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	1	0.05

Durations in hours

(1) % Unavailable is calculated by the following formula:

$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$

Emission Data Summary		
1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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4-27-12  
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Continuous Emission Monitor Quarterly Report Summary  
Gaseous and Opacity Excess Emission and Monitoring System Performance  
Pollutant: Boiler 1 SO2 lb/mmBtu 24-Hr  
Emission Limitation: 0.7  
Reporting Period Dates: From 1/01/2012 To 3/31/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/23/11

Total Source Operating Time in Reporting Period: 2184 hours

CEMS Performance Summary	Total CEMS Downtimes including exemptions	
	Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	1	0.05
3. Calibration/QA	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	1	0.05

Durations in hours

(1) % Unavailable is calculated by the following formula:

$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$

Emission Data Summary		
1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$

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Continuous Emission Monitor Quarterly Report Summary  
Gaseous and Opacity Excess Emission and Monitoring System Performance  
Pollutant: Boiler 1 SO2 lb/mmBtu 30-Day  
Emission Limitation: 0.5  
Reporting Period Dates: From 1/01/2012 To 3/31/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/23/11

Total Source Operating Time in Reporting Period: 2184 hours

CEMS Performance Summary	Total CEMS Downtimes including exemptions	
	Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	1	0.05
3. Calibration/QA	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	1	0.05

Durations in hours

(1) % Unavailable is calculated by the following formula:

% Unavailable = CEMS Downtime during Source Operating Time/ Source Operating Time x 100

Emission Data Summary		
1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

% Excess Emissions = Total Duration of Excess Emissions/ Source Operating Time x 100

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Continuous Emission Monitor Quarterly Report Summary  
Gaseous and Opacity Excess Emission and Monitoring System Performance  
Pollutant: Boiler 1 SO2 Reduction 30-Day

Emission Limitation: 90

Reporting Period Dates: From 1/01/2012 To 3/31/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/23/11

Total Source Operating Time in Reporting Period: 2184 hours

CEMS Performance Summary	Total CEMS Downtimes including exemptions	
	Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	1	0.05
3. Calibration/QA	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	1	0.05

Durations in hours

(1) % Unavailable is calculated by the following formula:

% Unavailable = CEMS Downtime during Source Operating Time/ Source Operating Time x 100

Emission Data Summary		
1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

% Excess Emissions = Total Duration of Excess Emissions/ Source Operating Time x 100

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Continuous Emission Monitor Quarterly Report Summary  
Gaseous and Opacity Excess Emission and Monitoring System Performance  
Pollutant: Boilers Total SO2 Tons  
Emission Limitation: 6.45  
Reporting Period Dates: From 1/01/2012 To 3/31/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boilers

Date of Last CEMS Certification or Audit: 08/24/11

Total Source Operating Time in Reporting Period: 2184 hours

CEMS Performance Summary	Total CEMS Downtimes including exemptions	
	%	
	Duration	Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	1	0.05
3. Calibration/QA	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	1	0.05

Durations in hours

(1) % Unavailable is calculated by the following formula:

% Unavailable = CEMS Downtime during Source Operating Time/ Source Operating Time x 100

Emission Data Summary		
1. Duration of excess emissions in reporting period due to:	Duration	% Excess
		Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

% Excess Emissions = Total Duration of Excess Emissions/ Source Operating Time x 100

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4-27-12

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Continuous Emission Monitor Quarterly Report Summary  
Gaseous and Opacity Excess Emission and Monitoring System Performance  
Pollutant: Boiler 1 CO lb/mmBtu 24-Hr  
Emission Limitation: 0.300  
Reporting Period Dates: From 1/01/2012 To 3/31/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/23/11

Total Source Operating Time in Reporting Period: 2184 hours

CEMS Performance Summary	Total CEMS Downtimes including exemptions	
	%	
1. CEMS downtime in reporting period due to:	Duration	Unavailable (1)
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	1	0.05
3. Calibration/QA	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	1	0.05

Durations in hours

(1) % Unavailable is calculated by the following formula:

% Unavailable = CEMS Downtime during Source Operating Time/ Source Operating Time x 100

Emission Data Summary		
1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

% Excess Emissions = Total Duration of Excess Emissions/ Source Operating Time x 100

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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4-27-12

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## Continuous Emission Monitor Quarterly Report Summary

## Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 CO lb/hr 24-Hr

Emission Limitation: 115.2

Reporting Period Dates: From 1/01/2012 To 3/31/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/23/11

Total Source Operating Time in Reporting Period: 2184 hours

## CEMS Performance Summary

Total CEMS Downtimes  
including exemptions

	Duration	%
		Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	1	0.05
3. Calibration/QA	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	1	0.05

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

## Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

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4-27-12

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Continuous Emission Monitor Quarterly Report Summary  
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 Opacity

Emission Limitation: 10

Reporting Period Dates: From 1/01/2012 To 3/31/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/25/11

Total Source Operating Time in Reporting Period: 21840 periods

CEMS Performance Summary	Total CEMS Downtimes including exemptions	
	Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	10	0.05
3. Calibration/QA	7	0.03
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	17	0.08

Durations in 6-minute periods

(1) % Unavailable is calculated by the following formula:

% Unavailable = CEMS Downtime during Source Operating Time/ Source Operating Time x 100

Emission Data Summary		
1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	21	0.10
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	21	0.10

Durations in 6-minute periods

(2) % Excess Emissions is calculated by the following formulas:

% Excess Emissions = Total Duration of Excess Emissions/ Source Operating Time x 100

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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4-27-12  
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Continuous Emission Monitor Quarterly Report Summary  
Gaseous and Opacity Excess Emission and Monitoring System Performance  
Pollutant: Boiler 2 NOx lb/mmBtu 30-Day  
Emission Limitation: 0.60  
Reporting Period Dates: From 1/01/2012 To 3/31/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/24/11

Total Source Operating Time in Reporting Period: 2184 hours

CEMS Performance Summary	Total CEMS Downtimes including exemptions	
	Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	1	0.05
3. Calibration/QA	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	1	0.05

Durations in hours

(1) % Unavailable is calculated by the following formula:

% Unavailable = CEMS Downtime during Source Operating Time/ Source Operating Time x 100

Emission Data Summary		
1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

% Excess Emissions = Total Duration of Excess Emissions/ Source Operating Time x 100

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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Continuous Emission Monitor Quarterly Report Summary  
Gaseous and Opacity Excess Emission and Monitoring System Performance  
Pollutant: Boiler 2 SO2 lb/mmBtu 24-Hr  
Emission Limitation: 0.7  
Reporting Period Dates: From 1/01/2012 To 3/31/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/24/11

Total Source Operating Time in Reporting Period: 2184 hours

CEMS Performance Summary	Total CEMS Downtimes including exemptions	
		%
1. CEMS downtime in reporting period due to:	Duration	Unavailable (1)
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	1	0.05
3. Calibration/QA	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	1	0.05

Durations in hours

(1) % Unavailable is calculated by the following formula:

% Unavailable = CEMS Downtime during Source Operating Time/ Source Operating Time x 100

Emission Data Summary		
1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

% Excess Emissions = Total Duration of Excess Emissions/ Source Operating Time x 100

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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4-27-12  
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## Continuous Emission Monitor Quarterly Report Summary

## Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 SO<sub>2</sub> lb/mmBtu 30-Day

Emission Limitation: 0.5

Reporting Period Dates: From 1/01/2012 To 3/31/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/24/11

Total Source Operating Time in Reporting Period: 2184 hours

## CEMS Performance Summary

Total CEMS Downtimes  
including exemptions

	Duration	%
		Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	1	0.05
3. Calibration/QA	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	1	0.05

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

## Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

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## Continuous Emission Monitor Quarterly Report Summary

## Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 SO<sub>2</sub> Reduction 30-Day

Emission Limitation: 90

Reporting Period Dates: From 1/01/2012 To 3/31/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/24/11

Total Source Operating Time in Reporting Period: 2184 hours

## CEMS Performance Summary

Total CEMS Downtimes  
including exemptions

	Duration	%
		Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	1	0.05
3. Calibration/QA	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	1	0.05

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

## Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess
		Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this report are true, accurate, and complete.

Jason M. Prentice  
NAME

Jason M. Prentice  
SIGNATURE

Env. Planner  
TITLE

4-27-12  
DATE



Continuous Emission Monitor Quarterly Report Summary  
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 CO lb/mmBtu 24-Hr

Emission Limitation: 0.300

Reporting Period Dates: From 1/01/2012 To 3/31/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/24/11

Total Source Operating Time in Reporting Period: 2184 hours

CEMS Performance Summary	Total CEMS Downtimes including exemptions	
	%	
	Duration	Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	1	0.05
3. Calibration/QA	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	1	0.05

Durations in hours

(1) % Unavailable is calculated by the following formula:

% Unavailable = CEMS Downtime during Source Operating Time/ Source Operating Time x 100

Emission Data Summary		
1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

% Excess Emissions = Total Duration of Excess Emissions/ Source Operating Time x 100

On a separate page, describe any changes since last reporting period in CMS, process or controls.

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this report are true, accurate, and complete.

Jason M. Prentice  
NAME

Jason M. Prentice  
SIGNATURE

Env. Planner  
TITLE

4-27-12  
DATE

Continuous Emission Monitor Quarterly Report Summary  
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 CO lb/hr 24-Hr

Emission Limitation: 115.2

Reporting Period Dates: From 1/01/2012 To 3/31/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/24/11

Total Source Operating Time in Reporting Period: 2184 hours

CEMS Performance Summary	Total CEMS Downtimes including exemptions	
	Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	1	0.05
3. Calibration/QA	1	0.05
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	2	0.09

Durations in hours

(1) % Unavailable is calculated by the following formula:

% Unavailable = CEMS Downtime during Source Operating Time/ Source Operating Time x 100

Emission Data Summary		
1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

% Excess Emissions = Total Duration of Excess Emissions/ Source Operating Time x 100

On a separate page, describe any changes since last reporting period in CMS, process or controls.

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this report are true, accurate, and complete.

Jason M. Prentice  
NAME

Jason M. Prentice  
SIGNATURE

Env. Planner  
TITLE

4-27-12  
DATE

## Downtime Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** Opacity

**Data in the Reporting Period: 01/01/12 to 03/31/12**

Incid. No.	Start Date	End Date	Duration Periods	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	02/23/12 08:48:36	02/23/12 09:35:41	8	15=Preventative Maintenance	3=Quality Assurance Calibrations	
2	03/13/12 06:42:43	03/13/12 07:41:43	10	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	

**Total Downtime in the Reporting Period = 18 Periods , Data Availability for this Reporting Period = 99.92 %**

**Total Operating Time in the Reporting Period = 21840 Periods**

## Downtime Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** NOx CEMS

**Data in the Reporting Period: 01/01/12 to 03/31/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	03/13/12 06:00:37	03/13/12 06:59:37	1	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	

**Total Downtime in the Reporting Period = 1 hours , Data Availability for this Reporting Period = 99.95 %**

**Total Operating Time in the Reporting Period = 2184 hours**

## Downtime Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** SO2 CEMS

**Data in the Reporting Period: 01/01/12 to 03/31/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	03/13/12 06:00:37	03/13/12 06:59:37	1	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	

**Total Downtime in the Reporting Period = 1 hours , Data Availability for this Reporting Period = 99.95 %**

**Total Operating Time in the Reporting Period = 2184 hours**

## Downtime Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** CO #/MMBTU CEMS

**Data in the Reporting Period: 01/01/12 to 03/31/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	03/13/12 06:00:37	03/13/12 06:59:37	1	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	

**Total Downtime in the Reporting Period = 1 hours , Data Availability for this Reporting Period = 99.95 %**

**Total Operating Time in the Reporting Period = 2184 hours**

## Downtime Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** CO #/HOUR CEMS

**Data in the Reporting Period: 01/01/12 to 03/31/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	03/13/12 06:00:37	03/13/12 06:59:37	1	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	

**Total Downtime in the Reporting Period = 1 hours , Data Availability for this Reporting Period = 99.95 %**

**Total Operating Time in the Reporting Period = 2184 hours**

## Downtime Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** CO2 Analyzer

**Data in the Reporting Period: 01/01/12 to 03/31/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	03/13/12 06:00:37	03/13/12 06:59:37	1	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	

**Total Downtime in the Reporting Period = 1 hours , Data Availability for this Reporting Period = 99.95 %**

**Total Operating Time in the Reporting Period = 2184 hours**



## Downtime Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** Flow Analyzer

**Data in the Reporting Period: 01/01/12 to 03/31/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	03/13/12 06:00:37	03/13/12 06:59:37	1	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	

**Total Downtime in the Reporting Period = 1 hours , Data Availability for this Reporting Period = 99.95 %**

**Total Operating Time in the Reporting Period = 2184 hours**

## Downtime Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** Inlet SO2 CEMS

**Data in the Reporting Period: 01/01/12 to 03/31/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	03/13/12 06:00:37	03/13/12 06:59:37	1	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	

**Total Downtime in the Reporting Period = 1 hours , Data Availability for this Reporting Period = 99.95 %**

**Total Operating Time in the Reporting Period = 2184 hours**

## Downtime Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** Inlet CO2 Analyzer

**Data in the Reporting Period: 01/01/12 to 03/31/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	03/13/12 06:00:37	03/13/12 06:59:37	1	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	

**Total Downtime in the Reporting Period = 1 hours , Data Availability for this Reporting Period = 99.95 %**

**Total Operating Time in the Reporting Period = 2184 hours**

## Downtime Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** Opacity

**Data in the Reporting Period: 01/01/12 to 03/31/12**

Incid. No.	Start Date	End Date	Duration Periods	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	02/23/12 09:30:37	02/23/12 10:11:37	7	15=Preventative Maintenance	3=Quality Assurance Calibrations	
2	03/13/12 06:42:37	03/13/12 07:41:37	10	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	

**Total Downtime in the Reporting Period = 17 Periods , Data Availability for this Reporting Period = 99.92 %**

**Total Operating Time in the Reporting Period = 21840 Periods**

## Downtime Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** NOx CEMS

**Data in the Reporting Period: 01/01/12 to 03/31/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	03/13/12 06:00:36	03/13/12 06:59:36	1	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	

**Total Downtime in the Reporting Period = 1 hours , Data Availability for this Reporting Period = 99.95 %**

**Total Operating Time in the Reporting Period = 2184 hours**

## Downtime Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** SO2 CEMS

**Data in the Reporting Period: 01/01/12 to 03/31/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	03/13/12 06:00:36	03/13/12 06:59:36	1	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	

**Total Downtime in the Reporting Period = 1 hours , Data Availability for this Reporting Period = 99.95 %**

**Total Operating Time in the Reporting Period = 2184 hours**

## Downtime Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** CO #/MMBTU CEMS

**Data in the Reporting Period: 01/01/12 to 03/31/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	03/13/12 06:00:36	03/13/12 06:59:36	1	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	

**Total Downtime in the Reporting Period = 1 hours , Data Availability for this Reporting Period = 99.95 %**

**Total Operating Time in the Reporting Period = 2184 hours**

## Downtime Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler2

**Parameter:** CO #/HOUR CEMS

**Data in the Reporting Period: 01/01/12 to 03/31/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	02/21/12 08:00:42	02/21/12 08:59:42	1	98=Automatic Calibration	3=Quality Assurance Calibrations	
2	03/13/12 06:00:36	03/13/12 06:59:36	1	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	

**Total Downtime in the Reporting Period = 2 hours , Data Availability for this Reporting Period = 99.91 %**

**Total Operating Time in the Reporting Period = 2184 hours**



## Downtime Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** CO2 Analyzer

**Data in the Reporting Period: 01/01/12 to 03/31/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	03/13/12 06:00:36	03/13/12 06:59:36	1	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	

**Total Downtime in the Reporting Period = 1 hours , Data Availability for this Reporting Period = 99.95 %**

**Total Operating Time in the Reporting Period = 2184 hours**

## Downtime Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** Flow Analyzer

**Data in the Reporting Period: 01/01/12 to 03/31/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	03/13/12 06:00:36	03/13/12 06:59:36	1	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	

**Total Downtime in the Reporting Period = 1 hours , Data Availability for this Reporting Period = 99.95 %**

**Total Operating Time in the Reporting Period = 2184 hours**

## Downtime Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** Inlet SO2 CEMS

**Data in the Reporting Period: 01/01/12 to 03/31/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	03/13/12 06:00:36	03/13/12 06:59:36	1	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	

**Total Downtime in the Reporting Period = 1 hours , Data Availability for this Reporting Period = 99.95 %**

**Total Operating Time in the Reporting Period = 2184 hours**

## Downtime Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** Inlet CO2 Analyzer

**Data in the Reporting Period: 01/01/12 to 03/31/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	03/13/12 06:00:36	03/13/12 06:59:36	1	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	

**Total Downtime in the Reporting Period = 1 hours , Data Availability for this Reporting Period = 99.95 %**

**Total Operating Time in the Reporting Period = 2184 hours**

## Excess Emissions Report

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** Opacity

**Limit:** 10

**Data in the Reporting Period: 01/01/12 to 03/31/12**

Inc No.	Start Date	End Date	Duration Periods	Emission Reading	EPA Category	Reason for Incident	Corrective Action
1	01/31/12 13:30:37	01/31/12 13:41:38	2	49	Other Known Causes	#1 Atomizer Change-out	Swap out #1 Atomizer
2	02/07/12 05:42:37	02/07/12 05:47:37	1	53	Other Known Causes	Atomizer By-Pass Hi Temperature	Atomizer Change out Complete
3	02/25/12 20:30:37	02/25/12 20:35:37	1	12	Other Known Causes	Soot Blowing	Soot Blowing Complete
4	02/29/12 11:00:37	02/29/12 11:35:38	6	59	Other Known Causes	Atomizer Breaker #1 Failure	Install New Breaker
5	03/02/12 07:54:37	03/02/12 07:59:37	1	14	Other Known Causes	Atomizer Changeout to Test new Motor.	Put old Motor back in service until problem on new

**Total Duration in the Reporting Period = 11 Periods , Percentage of Operating Time above Excess Emission Limit = 0.05 %**

**Total Operating Time in the Reporting Period = 21840 Periods**

## Excess Emissions Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** NOx lb/mmBtu 30-Day

**Limit:** 0.60

**Data in the Reporting Period: 01/01/12 to 03/31/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

**Total Duration in the Reporting Period = 0 hours**

**Total Operating Time in the Reporting Period = 2184 hours**

## Excess Emissions Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** SO2 lb/mmBtu Daily Ave.

**Data in the Reporting Period: 01/01/12 to 03/31/12**

Inc No.	Start Date	End Date	Duration hours	Emission	Limit	EPA Category	Reason for Excess Emission	Corrective Action
								No Incidents found in this Reporting Period

**Total Duration in the Reporting Period = 0 hours**

**Total Operating Time in the Reporting Period = 2184 hours**

## Excess Emissions Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** SO2 lb/mmBtu 30-Day

**Limit:** 0.5

**Data in the Reporting Period: 01/01/12 to 03/31/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

**Total Duration in the Reporting Period = 0 hours**

**Total Operating Time in the Reporting Period = 2184 hours**



## Excess Emissions Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** SO2 Reduction 30-Day

**Limit:** 90

**Data in the Reporting Period: 01/01/12 to 03/31/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

**Total Duration in the Reporting Period = 0 hours**

**Total Operating Time in the Reporting Period = 2184 hours**

## Excess Emissions Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boilers

**Parameter:** Total SO2 Tons

**Limit:** 6.45

**Data in the Reporting Period: 01/01/12 to 03/31/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

**Total Duration in the Reporting Period = 0 hours**

**Total Operating Time in the Reporting Period = 2184 hours**

## Excess Emissions Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** CO lb/mmBtu 24-Hr Roll

**Limit:** 0.300

**Data in the Reporting Period: 01/01/12 to 03/31/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

**Total Duration in the Reporting Period = 0 hours**

**Total Operating Time in the Reporting Period = 2184 hours**

## Excess Emissions Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** CO lb/hr 24-Hr Roll

**Limit:** 115.2

**Data in the Reporting Period: 01/01/12 to 03/31/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

**Total Duration in the Reporting Period = 0 hours**

**Total Operating Time in the Reporting Period = 2184 hours**

# Excess Emissions Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** Opacity

**Limit:** 10

**Data in the Reporting Period: 01/01/12 to 03/31/12**

Inc No.	Start Date	End Date	Duration Periods	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
1	01/03/12 10:30:37	01/03/12 10:41:36	2	53	63	Other Known Causes	Atomizer changeout, Baghouse bypass	Completed changeout
2	01/17/12 09:54:39	01/17/12 10:05:36	2	21	26	Other Known Causes	Atomizer changeout, Baghouse bypass	Completed changeout
3	01/31/12 09:42:36	01/31/12 09:47:36	1	58	58	Other Known Causes	Atomizer Change Out Bypass Hi Temp.	Atomizer Change-ouy Complete
4	02/14/12 10:30:41	02/14/12 10:35:41	1	28	28	Other Known Causes	Other Known Problems. Atomizer	Atomizer Change-out Complete.
5	02/27/12 07:48:35	02/27/12 07:59:38	2	46	57	Other Known Causes	Atomizer Hi Temperature.	Restarted Atomizer.
6	02/27/12 09:54:36	02/27/12 10:11:36	3	25	28	Other Known Causes	Atomizer change out, bypass HI Temp	Atomizer change out complete
7	03/06/12 05:42:40	03/06/12 05:59:39	3	46	81	Other Known Causes	Recycle Pump Problems.	Corrected Pump Problems.
8	03/13/12 10:36:38	03/13/12 10:41:38	1	59	59	Other Known Causes	Atomizer --Baghouse Bypass on Hi	Temperature Dropped back in Service
9	03/20/12 09:18:43	03/20/12 09:29:39	2	46	55	Other Known Causes	Atomizer--Baghouse Bypass on High	Temperature dropped back in Service
10	03/21/12 10:36:36	03/21/12 10:41:36	1	11	11	Other Known Causes	Atomizer --Bypass Low Temperature	Temperature back to Normal and in Service
11	03/27/12 09:42:37	03/27/12 09:53:38	2	48	58	Other Known Causes	Atomizer Changeout--Bypass Hi Temp.	Atomizer Changeout Complete.
12	03/27/12 10:00:43	03/27/12 10:05:43	1	34	34	Other Known Causes	Atomizer Changeout--Bypass Hi Temp.	Atomizer Changeout Complete.

**Total Duration in the Reporting Period = 21 Periods , Percentage of Operating Time above Excess Emission Limit = 0.10 %**

**Total Operating Time in the Reporting Period = 21840 Periods**

## Excess Emissions Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** NOx lb/mmBtu 30-Day

**Limit:** 0.60

**Data in the Reporting Period: 01/01/12 to 03/31/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

**Total Duration in the Reporting Period = 0 hours**

**Total Operating Time in the Reporting Period = 2184 hours**

## Excess Emissions Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** SO2 lb/mmBtu Daily Ave.

**Data in the Reporting Period: 01/01/12 to 03/31/12**

Inc No.	Start Date	End Date	Duration hours	Emission	Limit	EPA Category	Reason for Excess Emission	Corrective Action
								No Incidents found in this Reporting Period

**Total Duration in the Reporting Period = 0 hours**

**Total Operating Time in the Reporting Period = 2184 hours**

## Excess Emissions Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** SO2 lb/mmBtu 30-Day

**Limit:** 0.5

**Data in the Reporting Period: 01/01/12 to 03/31/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

**Total Duration in the Reporting Period = 0 hours**

**Total Operating Time in the Reporting Period = 2184 hours**



## Excess Emissions Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** SO2 Reduction 30-Day

**Limit:** 90

**Data in the Reporting Period: 01/01/12 to 03/31/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

**Total Duration in the Reporting Period = 0 hours**

**Total Operating Time in the Reporting Period = 2184 hours**

## Excess Emissions Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** CO lb/mmBtu 24-Hr Roll

**Limit:** 0.300

**Data in the Reporting Period: 01/01/12 to 03/31/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

**Total Duration in the Reporting Period = 0 hours**

**Total Operating Time in the Reporting Period = 2184 hours**

## Excess Emissions Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** CO lb/hr 24-Hr Roll

**Limit:** 115.2

**Data in the Reporting Period: 01/01/12 to 03/31/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

**Total Duration in the Reporting Period = 0 hours**

**Total Operating Time in the Reporting Period = 2184 hours**

# Linearity Test Report - 2012Q1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 1 NOx High Audit Test Results Analyzer Span: 500.00 ppm

Mfr & Model: Thermo 42i

Serial Number: 0623017966

Low-Level Calibration Gas  
(20-30% of Span)  
( 100.00 ppm - 150.00 ppm)

Concentration: 124.10  
Cylinder No.: CC27079  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

Mid-Level Calibration Gas  
(50-60% of Span)  
( 250.00 ppm - 300.00 ppm)

Concentration: 273.40  
Cylinder No.: xc024208b  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

High-Level Calibration Gas  
(80-100% of Span)  
( 400.00 ppm - 500.00 ppm)

Concentration: 438.80  
Cylinder No.: eb0013382  
Expiration Date: 05/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

Test Date: 02/22/12

Tester: James Fanning/David Duby

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	09:22:41	125.30	09:27:41	273.70	09:32:42	434.10
Run 2	09:52:41	125.30	09:57:45	273.40	10:02:46	434.40
Run 3	10:22:37	125.60	10:27:37	273.60	10:32:42	434.10
Avg. Monitor Response		125.400		273.567		434.200
Linearity Error		1.0		0.1		1.0
Absolute Difference		1.3		0.2		4.6
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS | Cal. Gas Concentration - Avg. Monitor Response |} \times 100}{\text{Cal. Gas Concentration}}$$

$$\text{Absolute Difference} = \text{ABS | Cal. Gas Concentration - Avg. Monitor Response |}$$

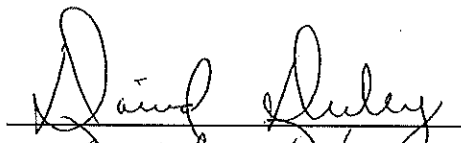
Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature:



Print Name:

David Duby  
Technician/Service Representative

# Linearity Test Report - 2012Q1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 1 SO2 Low Audit Test Results Analyzer Span: 200.00 ppm

Mfr & Model: Thermo 43i

Serial Number: 0622717877

Low-Level Calibration Gas  
(20-30% of Span)  
( 40.000 ppm - 60.000 ppm)

Concentration: 49.380  
Cylinder No.: CC27079  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

Mid-Level Calibration Gas  
(50-60% of Span)  
( 100.00 ppm - 120.00 ppm)

Concentration: 107.70  
Cylinder No.: xc024208b  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

High-Level Calibration Gas  
(80-100% of Span)  
( 160.00 ppm - 200.00 ppm)

Concentration: 181.50  
Cylinder No.: eb0013382  
Expiration Date: 05/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

Test Date: 02/22/12

Tester: james fanning/David Duby

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	09:22:41	51.000	09:27:41	108.10	09:32:42	181.30
Run 2	09:52:41	50.600	09:57:45	109.10	10:02:46	180.80
Run 3	10:22:37	51.300	10:27:37	108.80	10:32:42	180.60
Avg. Monitor Response		50.967		108.667		180.900
Linearity Error		3.2		0.9		0.3
Absolute Difference		1.6		1.0		0.6
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS | Cal. Gas Concentration - Avg. Monitor Response |} \times 100}{\text{Cal. Gas Concentration}}$$

$$\text{Absolute Difference} = \text{ABS | Cal. Gas Concentration - Avg. Monitor Response |}$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature: \_\_\_\_\_

Print Name: \_\_\_\_\_

Technician/Service Representative

# Linearity Test Report - 2012Q1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 1 SO2 High Audit Test Results Analyzer Span: 1500.0 ppm

Mfr & Model: Thermo 43i

Serial Number: 0622717877

Low-Level Calibration Gas  
(20-30% of Span)  
( 300.00 ppm - 450.00 ppm)

Concentration: 378.30  
Cylinder No.: CC81480  
Expiration Date: 03/12/12

Vendor ID: B62011  
Gas Type Code: SC2

Mid-Level Calibration Gas  
(50-60% of Span)  
( 750.00 ppm - 900.00 ppm)

Concentration: 832.70  
Cylinder No.: CC62032  
Expiration Date: 02/09/13

Vendor ID: B62011  
Gas Type Code: SC2

High-Level Calibration Gas  
(80-100% of Span)  
( 1200.0 ppm - 1500.0 ppm)

Concentration: 1353.0  
Cylinder No.: SG9149048BAL  
Expiration Date: 12/07/14

Vendor ID: B62011  
Gas Type Code: SC2

Test Date: 02/22/12

Tester: james fanning/David Duby

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	12:22:39	376.70	12:27:39	826.40	12:32:43	1328.0
Run 2	12:52:40	376.70	12:57:39	824.60	13:02:43	1331.7
Run 3	13:22:36	378.40	13:27:39	826.80	13:32:44	1334.0
Avg. Monitor Response		377.267		825.933		1331.23
Linearity Error		0.3		0.8		1.6
Absolute Difference		1.0		6.8		21.8
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} |}{\text{Cal. Gas Concentration}} \times 100$$

$$\text{Absolute Difference} = \text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} |$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature: \_\_\_\_\_

Print Name: \_\_\_\_\_

Technician/Service Representative

# CGA Test Report - 2012Q1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 1 CO High Audit Test Results Analyzer Span: 500.00 ppm

Mfr & Model: Thermo 48i

Serial Number: 0622717887

Low-Level Calibration Gas Concentration: 74.5  
(20-30% of Span) Cylinder No.: CC27079  
( 100.00 ppm - 150.00 ppm) Expiration Date: 11/16/13

Mid-Level Calibration Gas Concentration: 161.4  
(50-60% of Span) Cylinder No.: XC024208B  
( 250.00 ppm - 300.00 ppm) Expiration Date: 11/16/13

Test Date: 02/21/12

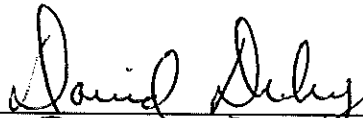
Tester: Dave Duby/Jim Fanning

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	09:22:41	74.0	09:27:41	161.2
Run 2	09:52:41	74.2	09:57:45	161.2
Run 3	10:22:37	75.2	10:27:37	161.2
Avg. Monitor Response		74.5		161.2
Calibration Error		0.0		-0.1
Absolute Difference		0.0		0.2
Test Status		Pass		Pass

$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response} - \text{Cal. Gas Concentration}}{\text{Cal. Gas Concentration}} \times 100$$

I have personally performed this Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F, Section 5.1.2 and attest that the recorded information on this document is true, accurate, and complete.

Signature:



Print Name:

David Duby

Technician/Service Representative

# Linearity Test Report - 2012Q1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 1 CO2 Audit Test Results Analyzer Span: 20.000 %

Mfr & Model: Thermo 410i

Serial Number: 0622717869

Low-Level Calibration Gas  
(20-30% of Span)  
( 4.000 % - 6.000 %)

Concentration: 5.550  
Cylinder No.: CC27079  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

Mid-Level Calibration Gas  
(50-60% of Span)  
( 10.000 % - 12.000 %)

Concentration: 11.350  
Cylinder No.: xc024208b  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

High-Level Calibration Gas  
(80-100% of Span)  
( 16.000 % - 20.000 %)

Concentration: 17.530  
Cylinder No.: eb0013382  
Expiration Date: 05/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

Test Date: 02/22/12

Tester: james fanning/David Duby

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	09:22:41	5.570	09:27:41	11.350	09:32:42	17.540
Run 2	09:52:41	5.570	09:57:45	11.370	10:02:46	17.510
Run 3	10:22:37	5.580	10:27:37	11.360	10:32:42	17.520
Avg. Monitor Response		5.573		11.360		17.523
Linearity Error		0.4		0.1		0.0
Absolute Difference		0.0		0.0		0.0
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS | Cal. Gas Concentration - Avg. Monitor Response |} \times 100}{\text{Cal. Gas Concentration}}$$

$$\text{Absolute Difference} = \text{ABS | Cal. Gas Concentration - Avg. Monitor Response |}$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature: \_\_\_\_\_

Print Name: \_\_\_\_\_

Technician/Service Representative



# CGA Test Report - 2012Q1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Bir 1 Inlet SO2 Audit Test Results Analyzer Span: 1500.0 ppm

Mfr & Model: Thermo 43i

Serial Number: 0622717879

Low-Level Calibration Gas Concentration: 378.3  
(20-30% of Span) Cylinder No.: CC81480  
( 300.0 ppm - 450.0 ppm) Expiration Date: 03/12/12

Mid-Level Calibration Gas Concentration: 832.7  
(50-60% of Span) Cylinder No.: CC62032  
( 750.0 ppm - 900.0 ppm) Expiration Date: 02/09/13

Test Date: 02/21/12

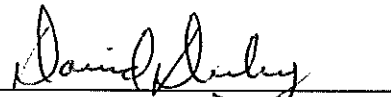
Tester: Dave Duby/Jim Fanning

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	09:38:38	383.9	09:45:41	821.1
Run 2	10:09:41	389.6	10:15:38	821.1
Run 3	10:42:42	386.6	10:48:41	816.8
Avg. Monitor Response		386.7		819.7
Calibration Error		2.2		-1.6
Absolute Difference		8.4		13.0
Test Status		Pass		Pass

$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response} - \text{Cal. Gas Concentration}}{\text{Cal. Gas Concentration}} \times 100$$

I have personally performed this Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F, Section 5.1.2 and attest that the recorded information on this document is true, accurate, and complete.

Signature:



Print Name:

David Duby  
Technician/Service Representative

# CGA Test Report - 2012Q1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 1 Inlet CO2 Audit Test Results Analyzer Span: 20.00 %

Mfr & Model: Thermo 410i

Serial Number: 0622717873

Low-Level Calibration Gas Concentration: 5.54  
(5.00% - 8.00%) Cylinder No.: CC81480  
Expiration Date: 03/12/12

Mid-Level Calibration Gas Concentration: 11.09  
(10.00% - 14.00%) Cylinder No.: CC62032  
Expiration Date: 02/09/13

Test Date: 02/21/12

Tester: Dave Duby/Jim Fanning

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	09:39:38	5.49	09:45:41	11.03
Run 2	10:09:41	5.54	10:15:38	10.88
Run 3	10:42:42	5.52	10:48:41	10.84
Avg. Monitor Response		5.52		10.92
Calibration Error		-0.4		-1.5
Absolute Difference		0.02		0.17
Test Status		Pass		Pass

$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response} - \text{Cal. Gas Concentration}}{\text{Cal. Gas Concentration}} \times 100$$

I have personally performed this Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F, Section 5.1.2 and attest that the recorded information on this document is true, accurate, and complete.

Signature:

Print Name:

Technician/Service Representative

# Linearity Test Report - 2012Q1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 2 NOx High Audit Test Results Analyzer Span: 500.00 ppm

Mfr & Model: Thermo 42i

Serial Number: 0623017967

Low-Level Calibration Gas  
(20-30% of Span)  
( 100.00 ppm - 150.00 ppm)

Concentration: 124.10  
Cylinder No.: CC27079  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

Mid-Level Calibration Gas  
(50-60% of Span)  
( 250.00 ppm - 300.00 ppm)

Concentration: 273.40  
Cylinder No.: xc024208b  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

High-Level Calibration Gas  
(80-100% of Span)  
( 400.00 ppm - 500.00 ppm)

Concentration: 438.80  
Cylinder No.: eb0013382  
Expiration Date: 05/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

Test Date: 02/21/12

Tester: james fanning/David Duby

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	12:23:36	124.60	12:28:36	275.70	12:33:41	432.30
Run 2	12:52:41	124.30	12:57:37	272.10	13:02:42	432.90
Run 3	13:22:37	124.60	13:27:41	272.00	13:32:42	431.80
Avg. Monitor Response		124.500		273.267		432.333
Linearity Error		0.3		0.0		1.5
Absolute Difference		0.4		0.1		6.5
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS | Cal. Gas Concentration - Avg. Monitor Response |} \times 100}{\text{Cal. Gas Concentration}}$$

$$\text{Absolute Difference} = \text{ABS | Cal. Gas Concentration - Avg. Monitor Response |}$$

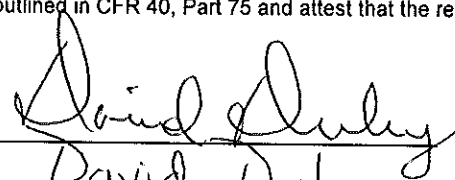
Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature:



Print Name:

David Duby  
Technician/Service Representative

# Linearity Test Report - 2012Q1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 2 SO2 Low Audit Test Results Analyzer Span: 200.00 ppm

Mfr & Model: Thermo 43i

Serial Number: 0622717880

Low-Level Calibration Gas  
(20-30% of Span)  
( 40.000 ppm - 60.000 ppm)

Concentration: 49.400  
Cylinder No.: CC27079  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

Mid-Level Calibration Gas  
(50-60% of Span)  
( 100.00 ppm - 120.00 ppm)

Concentration: 107.70  
Cylinder No.: xc024208b  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

High-Level Calibration Gas  
(80-100% of Span)  
( 160.00 ppm - 200.00 ppm)

Concentration: 181.50  
Cylinder No.: eb0013382  
Expiration Date: 05/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

Test Date: 02/21/12

Tester: james fanning/David Duby

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	12:23:36	50.000	12:28:36	114.40	12:33:41	179.30
Run 2	12:52:41	50.600	12:57:37	107.30	13:02:42	178.00
Run 3	13:22:37	50.100	13:27:41	106.80	13:32:42	178.40
Avg. Monitor Response		50.233		109.500		178.567
Linearity Error		1.7		1.7		1.6
Absolute Difference		0.8		1.8		2.9
Test Status		Pass		Pass		Pass

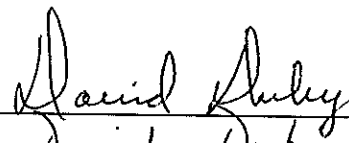
$$\text{Linearity Error} = \frac{\text{ABS | Cal. Gas Concentration - Avg. Monitor Response |} \times 100}{\text{Cal. Gas Concentration}}$$

$$\text{Absolute Difference} = \text{ABS | Cal. Gas Concentration - Avg. Monitor Response |}$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm  
Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %  
Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature:



Print Name:

David Duby  
Technician/Service Representative

TESFiler0002113

# Linearity Test Report - 2012Q1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 2 SO2 High Audit Test Results Analyzer Span: 1500.0 ppm

Mfr & Model: Thermo 43i

Serial Number: 0622717880

Low-Level Calibration Gas  
(20-30% of Span)  
( 300.00 ppm - 450.00 ppm)

Concentration: 378.30  
Cylinder No.: CC81480  
Expiration Date: 03/12/12

Vendor ID: B62011  
Gas Type Code: SC2

Mid-Level Calibration Gas  
(50-60% of Span)  
( 750.00 ppm - 900.00 ppm)

Concentration: 832.70  
Cylinder No.: CC62032  
Expiration Date: 02/09/13

Vendor ID: B62011  
Gas Type Code: SC2

High-Level Calibration Gas  
(80-100% of Span)  
( 1200.0 ppm - 1500.0 ppm)

Concentration: 1353.0  
Cylinder No.: SG9149048BAL  
Expiration Date: 12/07/14

Vendor ID: B62011  
Gas Type Code: SC2

Test Date: 02/21/12

Tester: james fanning/David Duby

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	14:22:42	375.30	14:27:42	826.40	14:32:42	1340.7
Run 2	14:52:37	380.30	14:57:38	829.50	15:02:42	1337.9
Run 3	15:22:39	380.60	15:27:46	827.30	15:32:47	1336.7
Avg. Monitor Response		378.733		827.733		1338.43
Linearity Error		0.1		0.6		1.1
Absolute Difference		0.4		5.0		14.6
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS | Cal. Gas Concentration - Avg. Monitor Response |}}{\text{Cal. Gas Concentration}} \times 100$$

$$\text{Absolute Difference} = \text{ABS | Cal. Gas Concentration - Avg. Monitor Response |}$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature: \_\_\_\_\_

*David Duby*

Print Name: \_\_\_\_\_

*David Duby*  
Technician/Service Representative

# CGA Test Report - 2012Q1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 2 CO High Audit Test Results Analyzer Span: 500.00 ppm

Mfr & Model: Thermo 48i

Serial Number: 0622717888

Low-Level Calibration Gas Concentration: 74.5  
(20-30% of Span) Cylinder No.: CC27079  
( 100.00 ppm - 150.00 ppm) Expiration Date: 11/16/13

Mid-Level Calibration Gas Concentration: 161.4  
(50-60% of Span) Cylinder No.: XC024208B  
( 250.00 ppm - 300.00 ppm) Expiration Date: 11/16/13

Test Date: 02/21/12

Tester: Dave Duby/Jim Fanning

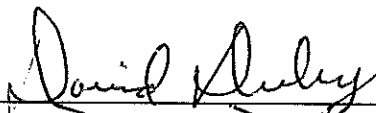
	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	12:23:36	73.4	12:27:42	171.0
Run 2	12:51:41	74.4	12:56:41	160.6
Run 3	13:22:42	72.8	13:27:42	158.8
Avg. Monitor Response		73.5		163.5
Calibration Error		-1.3		1.3
Absolute Difference		1.0		2.1
Test Status		Pass		Pass

$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response} - \text{Cal. Gas Concentration}}{\text{Cal. Gas Concentration}} \times 100$$

I have personally performed this Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F, Section 5.1.2 and attest that the recorded information on this document is true, accurate, and complete.

Signature:

Print Name:

  
David Duby  
Technician/Service Representative

# Linearity Test Report - 2012Q1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 2 CO2 Audit Test Results Analyzer Span: 20.000 %

Mfr & Model: Thermo 410i

Serial Number: 0622717874

Low-Level Calibration Gas  
(20-30% of Span)  
( 4.000 % - 6.000 %)

Concentration: 5.550  
Cylinder No.: CC27079  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

Mid-Level Calibration Gas  
(50-60% of Span)  
( 10.000 % - 12.000 %)

Concentration: 11.350  
Cylinder No.: xc024208b  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

High-Level Calibration Gas  
(80-100% of Span)  
( 16.000 % - 20.000 %)

Concentration: 17.530  
Cylinder No.: eb0013382  
Expiration Date: 05/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

Test Date: 02/21/12

Tester: james fanning/David Duby

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	12:23:36	5.550	12:28:36	11.050	12:33:41	17.550
Run 2	12:52:41	5.560	12:57:37	11.340	13:02:42	17.570
Run 3	13:22:37	5.570	13:27:41	11.340	13:32:42	17.540
Avg. Monitor Response		5.560		11.243		17.553
Linearity Error		0.2		0.9		0.1
Absolute Difference		0.0		0.1		0.0
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} |}{\text{Cal. Gas Concentration}} \times 100$$

$$\text{Absolute Difference} = \text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} |$$

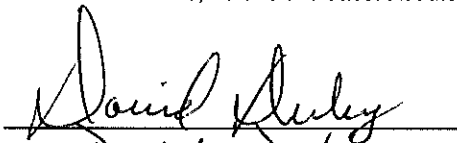
Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature:



Print Name:

David Duby  
Technician/Service Representative

# CGA Test Report - 2012Q1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 2 Inlet SO2 Audit Test Results Analyzer Span: 1500.0 ppm

Mfr & Model: Thermo 43i

Serial Number: 0622717883

Low-Level Calibration Gas Concentration: 378.3  
(20-30% of Span) Cylinder No.: CC81480  
( 300.0 ppm - 450.0 ppm) Expiration Date: 03/12/12

Mid-Level Calibration Gas Concentration: 832.7  
(50-60% of Span) Cylinder No.: CC62032  
( 750.0 ppm - 900.0 ppm) Expiration Date: 02/09/13

Test Date: 02/21/12

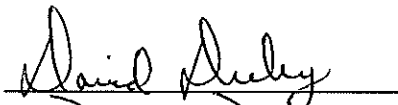
Tester: Dave Duby/Jim Fanning

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	12:39:37	384.9	12:45:40	828.6
Run 2	13:09:38	385.4	13:15:37	831.3
Run 3	13:39:37	384.5	13:45:37	828.2
Avg. Monitor Response		384.9		829.4
Calibration Error		1.7		-0.4
Absolute Difference		6.6		3.3
Test Status		Pass		Pass

$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response} - \text{Cal. Gas Concentration}}{\text{Cal. Gas Concentration}} \times 100$$

I have personally performed this Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F, Section 5.1.2 and attest that the recorded information on this document is true, accurate, and complete.

Signature:



Print Name:

David Duby  
Technician/Service Representative



# CGA Test Report - 2012Q1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 2 Inlet CO2 Audit Test Results Analyzer Span: 20.00 %

Mfr & Model: Thermo 410i

Serial Number: 0622717875

Low-Level Calibration Gas Concentration: 5.54  
(5.00% - 8.00%) Cylinder No.: CC81480  
Expiration Date: 03/12/12

Mid-Level Calibration Gas Concentration: 11.09  
(10.00% - 14.00%) Cylinder No.: CC62032  
Expiration Date: 02/09/13

Test Date: 02/21/12

Tester: Dave Duby /Jim Fanning

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	12:39:37	5.59	12:45:40	11.12
Run 2	13:09:38	5.58	13:15:37	11.12
Run 3	13:39:37	5.57	13:45:37	11.09
Avg. Monitor Response		5.58		11.11
Calibration Error		0.7		0.2
Absolute Difference		0.04		0.02
Test Status		Pass		Pass

$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response} - \text{Cal. Gas Concentration}}{\text{Cal. Gas Concentration}} \times 100$$

I have personally performed this Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F, Section 5.1.2 and attest that the recorded information on this document is true, accurate, and complete.

Signature:

Print Name:

*David Duby*

David Duby  
Technician/Service Representative

Airgas Great Lakes, Inc.  
2009 Bellaire Ave.  
Royal Oak, MI 48067  
Ph: (248) 399-9150  
Fax: (248) 584-2540  
<http://www.airgas.com>

## CERTIFICATE OF ANALYSIS

### Grade of Product: EPA Protocol

Customer: CADILLAC  
Part Number: E03NI88E15A0328  
Cylinder Number: CC62032  
Laboratory: MIC - Royal Oak-32 - MI  
Analysis Date: Feb 09, 2010  
Reference Number: 32-112020322-1  
Cylinder Volume: 151 Cu.Ft.  
Cylinder Pressure: 2015 PSIG  
Valve Outlet: 660

Expiration Date: Feb 09, 2013

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.  
Do Not Use This Cylinder below 150 psig i.e. 1 Mega Pascal

ANALYTICAL RESULTS				
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
SULFUR DIOXIDE	825.0 PPM	832.7 PPM	G1	+/- 1% NIST Traceable
CARBON DIOXIDE	11.00 %	11.09 %	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

CALIBRATION STANDARDS				
Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	06061228	CC206083	983.2PPM SULFUR DIOXIDE/NITROGEN	Sep 01, 2010
NTRM	97051201	SG9169482BAL	15.862% CARBON DIOXIDE/NITROGEN	May 01, 2010

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, 16% CO2, Nicolet 6700	Fourier Transform Infrared (FTIR)	Jan 14, 2010
E/N 54, 1000ppmFS SO2, Nicolet 6700	Fourier Transform Infrared (FTIR)	Jan 13, 2010

Triad Data Available Upon Request

Notes:

AFM

QA Approval

Airgas Great Lakes, Inc.  
2009 Bellaire Ave.  
Royal Oak, MI 48067  
Ph: (248) 399-9150  
Fax: (248) 584-2540  
<http://www.airgas.com>

# CERTIFICATE OF ANALYSIS

## Grade of Product: EPA Protocol

Customer: CADILLAC  
Part Number: E03NI94E15A3994  
Cylinder Number: CC81480  
Laboratory: MIC - Royal Oak-32 - MI  
Analysis Date: Mar 12, 2010  
Reference Number: 32-112037602-1  
Cylinder Volume: 147 Cu.Ft.  
Cylinder Pressure: 2015 PSIG  
Valve Outlet: 660

Expiration Date: Mar 12, 2012

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.  
Do Not Use This Cylinder below 150 psig, i.e. 1 Mega Pascal

ANALYTICAL RESULTS				
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
SULFUR DIOXIDE	375.0 PPM	378.3 PPM	G1	+/- 1% NIST Traceable
CARBON DIOXIDE	5.500 %	5.541 %	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

CALIBRATION STANDARDS				
Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	07120306	CC240073	496.2PPM SULFUR DIOXIDE/NITROGEN	May 01, 2011
NTRM	09060614	CC262133	9.921% CARBON DIOXIDE/NITROGEN	Apr 10, 2013

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, 10% CO2, Nicolet 6700	Fourier Transform Infrared (FTIR)	Feb 11, 2010
E/N 54, 1000ppmFS SO2, Nicolet 6700	Fourier Transform Infrared (FTIR)	Mar 08, 2010

Triad Data Available Upon Request

Notes:

AFM

Approved for Release

## Airgas Great Lakes

2009 Bellaire Ave.  
Royal Oak, MI 48067-8020  
www.airgas.com

# CERTIFICATE OF ANALYSIS

## Grade of Product: EPA Protocol

Customer: CADILLAC  
Part Number: E03NI82E15A3990  
Cylinder Number: SG9149048BAL  
Laboratory: MIC - Royal Oak-32 (SAP) - MI  
PGVP Number: B62011  
Reference Number: 32-400029425-1  
Cylinder Volume: 155 Cu.Ft.  
Cylinder Pressure: 2015 PSIG  
Valve Outlet: 660  
Analysis Date: Dec 07, 2011

SC<sub>2</sub>

Expiration Date: Dec 07, 2014

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.  
Do Not Use This Cylinder below 150 psig, i.e. 1 Mega Pascal

### ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
SULFUR DIOXIDE	1350 PPM	1353 PPM	G1	+/- 1% NIST Traceable
CARBON DIOXIDE	17.50 %	17.73 %	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

### CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	0712609	CC239950	2478PPM SULFUR DIOXIDE/NITROGEN	Mar 23, 2017
NTRM	08061311	CC254763	20.09% CARBON DIOXIDE/NITROGEN	Jul 15, 2012

### ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, 20% FS CO <sub>2</sub> , Nicolet 6700	Fourier Transform Infrared (FTIR)	Nov 23, 2011
E/N 54, 4800ppmFS SO <sub>2</sub> , Nicolet 6700	Fourier Transform Infrared (FTIR)	Nov 11, 2011

Full Data Available Upon Request

Notes:

A. F. Muhammad

Approved for Release

# CERTIFICATE OF ANALYSIS

## Grade of Product: EPA Protocol

Customer: CADILLAC  
Part Number: E05NI82E15A3991  
Cylinder Number: EB0013382  
Laboratory: MIC - Royal Oak-32 - MI  
PGVP Number: B62011  
Analysis Date: May 16, 2011

Reference Number: 32-112277961-3  
Cylinder Volume: 155 Cu.Ft.  
Cylinder Pressure: 2015 PSIG  
Valve Outlet: 660

Expiration Date: May 16, 2013

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.  
Do Not Use This Cylinder below 150 psig i.e. 1 Mega Pascal

### ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
SULFUR DIOXIDE	180.0 PPM	181.5 PPM	G1	+/- 1% NIST Traceable
CARBON MONOXIDE	425.0 PPM	413.0 PPM	G1	+/- 1% NIST Traceable
NITRIC OXIDE	437.0 PPM	438.8 PPM	G1	+/- 1% NIST Traceable
CARBON DIOXIDE	17.50 %	17.53 %	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

Total oxides of nitrogen 438.8 PPM For Reference Only

### CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	10060412	CC268000	495.6PPM NITRIC OXIDE/NITROGEN	Feb 01, 2016
NTRM	09060414	CC276112	501.3PPM CARBON MONOXIDE/NITROGEN	Feb 01, 2013
NTRM	09061016	CC300800	479.5PPM SULFUR DIOXIDE/NITROGEN	May 15, 2015
NTRM	04060435	XC034419B	19.84% CARBON DIOXIDE/NITROGEN	May 15, 2012

### ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, 20% FS CO <sub>2</sub> , Nicolet 6700	Fourier Transform Infrared (FTIR)	Apr 14, 2011
E/N 173, 500ppmFS CO, Siemens	Nondispersive Infrared (NDIR)	Apr 28, 2011
E/N 54, 1000 ppmFS NO, Nicolet 6700	Fourier Transform Infrared (FTIR)	Apr 26, 2011
E/N 54, 1000ppmFS SO <sub>2</sub> , Nicolet 6700	Fourier Transform Infrared (FTIR)	Apr 26, 2011

Triad Data Available Upon Request

Notes:

*PRQ*

# CERTIFICATE OF ANALYSIS

## Grade of Product: EPA Protocol

Customer: LANSING  
Part Number: E05NI88E15A0016  
Cylinder Number: XC024208B  
Laboratory: MIC - Royal Oak-32 (SAP) - MI  
PGVP Number: B62011

Reference Number: 32-400026873-1  
Cylinder Volume: 151 Cu.Ft.  
Cylinder Pressure: 2015 PSIG  
Valve Outlet: 660  
Analysis Date: Nov 16, 2011

Expiration Date: Nov 16, 2013

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.  
Do Not Use This Cylinder below 150 psig i.e. 1 Mega Pascal

ANALYTICAL RESULTS				
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
SULFUR DIOXIDE	110.0 PPM	107.7 PPM	G1	+/- 1% NIST Traceable
CARBON MONOXIDE	165.0 PPM	161.4 PPM	G1	+/- 1% NIST Traceable
NITRIC OXIDE	275.0 PPM	272.0 PPM	G1	+/- 1% NIST Traceable
CARBON DIOXIDE	11.00 %	11.35 %	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

Total oxides of nitrogen

273.4 PPM

For Reference Only

CALIBRATION STANDARDS				
Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	08060311	CC254643	250.0PPM CARBON MONOXIDE/NITROGEN	May 15, 2012
NTRM	08061635	CC255794	247.0PPM SULFUR DIOXIDE/NITROGEN	Oct 15, 2012
NTRM	9060606	CC262087	9.921% CARBON DIOXIDE/NITROGEN	Apr 10, 2013
NTRM	10060421	CC268177	495.6PPM NITRIC OXIDE/NITROGEN	Feb 01, 2016

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, 20% FS CO2, Nicolet 6700	Fourier Transform Infrared (FTIR)	Oct 28, 2011
E/N 173, 250ppmFS CO, Siemens	Nondispersive Infrared (NDIR)	Nov 15, 2011
E/N 54, 1000 ppmFS NO, Nicolet 6700	Fourier Transform Infrared (FTIR)	Nov 11, 2011
E/N 54, 1000ppmFS SO2, Nicolet 6700	Fourier Transform Infrared (FTIR)	Nov 11, 2011

Triad Data Available Upon Request

Notes:

*A. F. Muhammad*

## CERTIFICATE OF ANALYSIS

### Grade of Product: EPA Protocol

Customer: LANSING  
Part Number: E05NI94E15A0008  
Cylinder Number: CC27079  
Laboratory: MIC - Royal Oak-32 (SAP) - MI  
PGVP Number: B62011

Reference Number: 32-400026874-1  
Cylinder Volume: 147 Cu.Ft.  
Cylinder Pressure: 2015 PSIG  
Valve Outlet: 660  
Analysis Date: Nov 16, 2011

**Expiration Date: Nov 16, 2013**

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.  
Do Not Use This Cylinder below 150 psig, i.e. 1 Mega Pascal

#### ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
SULFUR DIOXIDE	50.00 PPM	49.38 PPM	G1	+/- 1% NIST Traceable
CARBON MONOXIDE	75.00 PPM	74.49 PPM	G1	+/- 1% NIST Traceable
NITRIC OXIDE	125.0 PPM	124.0 PPM	G1	+/- 1% NIST Traceable
CARBON DIOXIDE	5.500 %	5.549 %	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

Total oxides of nitrogen 124.1 PPM For Reference Only

#### CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	9060606	CC262087	9.921% CARBON DIOXIDE/NITROGEN	Apr 10, 2013
NTRM	09060503	CC280417	98.88PPM CARBON MONOXIDE/NITROGEN	Feb 01, 2013
NTRM	11060215	CC281048	49.67PPM SULFUR DIOXIDE/NITROGEN	May 13, 2017
NTRM	11060139	CC332059	248.4PPM NITRIC OXIDE/NITROGEN	Jan 11, 2017

#### ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, 10% CO2, Nicolet 6700	Fourier Transform Infrared (FTIR)	Oct 28, 2011
E/N 173, 100ppmFS CO/N2, Siemens Ultramat 6	Nondispersive Infrared (NDIR)	Oct 27, 2011
E/N 54, 250ppmFS NO, Nicolet 6700	Fourier Transform Infrared (FTIR)	Nov 11, 2011
E/N 54, 100ppmFS SO2, Nicolet 6700	Fourier Transform Infrared (FTIR)	Nov 11, 2011

Triad Data Available Upon Request

Notes:

A. F. Muhammad



A CMS Energy Company

Environmental Services

July 30, 2012

Mr. Shane Nixon  
Michigan Department of Environmental Quality  
Air Quality Division  
120 W. Chapin Street  
Cadillac, MI 49601-2158

**SUBJECT: SECOND QUARTER 2012 EMISSIONS MONITORING REPORT**

Dear Mr. Nixon:

Enclosed is the Second Quarter 2012 emissions monitoring report for Boilers No. 1 and No. 2 at the T.E.S. Filer City Station (Renewable Operating Permit No. ROP MI-ROP-N1685-2008a). The report includes all information required under Federal Standards of Performance for New Stationary Sources (40 CFR 60, Subparts A, Da, and Appendix F).

This quarterly report contains the Excess Emissions Reports (EERs) and Summary Reports for Boilers No. 1 and No. 2. The report also includes the results of linearity tests conducted in accordance with 40 CFR Part 75, Appendices A and B (all outlet CEMS other than CO) and cylinder gas audits (CGAs) conducted in accordance with 40 CFR Part 60, Appendix F (inlet CEMS and outlet CO CEMS). The associated Certificates of Analysis for the calibration gases used in the linearity tests and CGAs are also included within this quarterly report.

When reviewing the CO CGA test results for the 2<sup>nd</sup> quarter of 2012, it should be noted that the plant has implemented a new dual range for each of the Boilers 1 and 2 CO CEMS. The new low range span value is 300 ppm, while the new high range span value is 3,000 ppm. The plant believes this new dual range approach will provide better resolution at typical CO concentrations of less than 100 ppm and better accommodate short term spikes in CO concentrations during periods of startup, shutdown and malfunction. The CO CGA results for the 2<sup>nd</sup> quarter 2012 include results for both the low and high ranges for Boiler 1. However, this quarterly report only contains a CGA report for the Boiler 2 CO low range. The lack of CGA results for the Boiler 2 CO high range is due to a loss of data caused by Data Acquisition and Handling System (DAHS) malfunctions, as explained below.

It should also be noted that this report reflects approximately 24 hours of CEMS downtime for May of 2012 related to DAHS malfunctions. A certain amount of data was initially lost in late May as the plant worked to implement the new dual range on the CO analyzers. However, shortly after the loss of data, the plant worked with the DAHS vendor (VIM Technologies, Inc.) to recover much of the lost data. Unfortunately, subsequent work by the DAHS vendor resulted in a need to re-calculate the 2<sup>nd</sup> quarter 2012 data, and it would appear as though much of the data which was initially recovered has once again been lost. Although this issue could not be resolved before submission of this quarterly report, the plant intends to continue working with the DAHS vendor in order to recover as much of the missing data as possible. If this effort is successful, the plant will submit a revised 2<sup>nd</sup> quarter 2012 report, including a CGA report for the Boiler 2 CO high range.



No construction/demolition (C/D) materials were fired in Boilers No. 1 and No. 2 during the 2<sup>nd</sup> quarter of 2012. In accordance with the currently approved C/D Waste Wood Monitoring Plan, the facility has discontinued submitting a summary of C/D waste wood sampling and inspection activities on a quarterly basis. An annual C/D summary report will be included as part of the quarterly report submitted for the 4<sup>th</sup> quarter of 2012.

Please contact me at (517) 788-1467 or Mr. Richard Brown of TES Filer City Station at (231) 723-6573, Extension 103, if you have any questions or require further information concerning the contents of this quarterly report.

Sincerely,



Jason Prentice  
Environmental Planner  
Consumers Energy Company

cc: Richard Brown, TES Filer City Station  
Karen Kajiya-Mills, MDEQ-AQD  
Filer City Compliance File-Q, SA, A File



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
AIR QUALITY DIVISION

**RENEWABLE OPERATING PERMIT  
REPORT CERTIFICATION**

*Authorized by 1994 P.A. 451, as amended. Failure to provide this information may result in civil and/or criminal penalties.*

Reports submitted pursuant to R 336.1213 (Rule 213), subrules (3)(c) and/or (4)(c), of Michigan's Renewable Operating Permit (ROP) program must be certified by a responsible official. Additional information regarding the reports and documentation listed below must be kept on file for at least 5 years, as specified in Rule 213(3)(b)(ii), and be made available to the Department of Environmental Quality, Air Quality Division upon request.

Source Name T.E.S. Filer City Station County Manistee  
Source Address P.O. Box 12 / 700 Mee Street City Filer City  
AQD Source ID (SRN) N1685 ROP No. MI-ROP-N1685-2008a ROP Section No. N/A

Please check the appropriate box(es):

☐ **Annual Compliance Certification (Pursuant to Rule 213(4)(c))**

Reporting period (provide inclusive dates): From \_\_\_\_\_ To \_\_\_\_\_

- ☐ 1. During the entire reporting period, this source was in compliance with **ALL** terms and conditions contained in the ROP, each term and condition of which is identified and included by this reference. The method(s) used to determine compliance is/are the method(s) specified in the ROP.
- ☐ 2. During the entire reporting period this source was in compliance with all terms and conditions contained in the ROP, each term and condition of which is identified and included by this reference, **EXCEPT** for the deviations identified on the enclosed deviation report(s). The method used to determine compliance for each term and condition is the method specified in the ROP, unless otherwise indicated and described on the enclosed deviation report(s).

☐ **Semi-Annual (or More Frequent) Report Certification (Pursuant to Rule 213(3)(c))**

Reporting period (provide inclusive dates): From \_\_\_\_\_ To \_\_\_\_\_

- ☐ 1. During the entire reporting period, **ALL** monitoring and associated recordkeeping requirements in the ROP were met and no deviations from these requirements or any other terms or conditions occurred.
- ☐ 2. During the entire reporting period, all monitoring and associated recordkeeping requirements in the ROP were met and no deviations from these requirements or any other terms or conditions occurred, **EXCEPT** for the deviations identified on the enclosed deviation report(s).

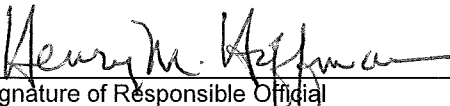
☒ **Other Report Certification**

Reporting period (provide inclusive dates): From 04/01/2012 To 06/30/2012

Additional monitoring reports or other applicable documents required by the ROP are attached as described:

Boilers 1 and 2 Quarterly Report for the 2<sup>nd</sup> Quarter of 2012 (April – June).

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this report and the supporting enclosures are true, accurate and complete

Henry M. Hoffman	General Manager	231-723-6573
Name of Responsible Official (print or type)	Title	Phone Number
		<u>7-26-2012</u>
Signature of Responsible Official		Date

**T.E.S. FILER CITY STATION**

## CONTINUOUS EMISSION MONITORING QUARTERLY REPORT

## SUBPART Da (NSPS SOURCES)

## Year 2012

**Report Period Ending:**      **March 31**                      **June 30**      **X**      **Sept. 30**                      **Dec. 31**

## I. GENERAL INFORMATION

1. Source: T.E.S. FILER CITY STATION
  2. Address: 700 MEE STREET  
FILER CITY, MICHIGAN 49634
  3. Plant Phone Number: (231) 723-6573
  4. Affected Facility: BOILER #1   X   BOILER #2   X
  5. Control Device(s): GEESI/DRY FLUE GAS DESULFERIZATION SYSTEM  
GEESI/FABRIC FILTER BAGHOUSES
  6. Fuel Type: Coal/Wood/TDF/Petroleum Coke/Construction & Demolition (C/D) Waste  
(NOTE: Although allowed by permit, C/D wastes were not fired during the quarter)
- Person Completing Report

(Print) Jason M. Prentice

(Signature) Jason M. Prentice

(Date) 7-30-12

This is to certify that, to the best of my knowledge, the information provided on these forms is correct and accurate.

8. Person Responsible For Review and Integrity of Report:

(Print) Henry M. Hoffman

(Signature) Henry M. Hoffman

(Date) 7-26-2012

## T.E.S. FILER CITY STATION

### II. CONTINUOUS MONITOR OPERATIONAL DATA

	# 1 OPACITY	# 2 OPACITY	INLET #1 SO <sub>2</sub>	INLET #2 SO <sub>2</sub>	STACK #1 SO <sub>2</sub>	STACK #2 SO <sub>2</sub>	STACK #1 NO <sub>x</sub>	STACK #2 NO <sub>x</sub>	STACK #1 CO	STACK #2 CO	INLET # 1 CO <sub>2</sub>	INLET # 2 CO <sub>2</sub>	STACK # 1 CO <sub>2</sub>	STACK # 2 CO <sub>2</sub>
1. MFG:	Durag, Inc.	Durag, Inc.	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>
2. MODEL NO:	D-R 290	D-R 290	43i	43i	43i	43i	42i	42i	48i	48i	410i	410i	410i	410i
3. SERIAL NO:	425692	425693	0622717879	0622717883	0622717877	0622717880	0623017966	0623017967	0622717887	0622717888	0622717873	0622717875	0622717869	0622717874
4. Basis for Gas Measurement (wet or dry)	N / A	N / A	WET	WET	WET	WET	WET	WET	WET	WET	WET	WET	WET	WET
5. F-Factor Used	N / A	N / A	F <sub>c</sub> ≈ 1,800 scf/mm Btu	F <sub>c</sub> ≈ 1,800 scf/mm Btu	F <sub>c</sub> ≈ 1,800 scf/mm Btu	F <sub>c</sub> ≈ 1,800 scf/mm Btu	F <sub>c</sub> ≈ 1,800 scf/mm Btu	F <sub>c</sub> ≈ 1,800 scf/mm Btu	F <sub>c</sub> ≈ 1,800 scf/mm Btu	F <sub>c</sub> ≈ 1,800 scf/mm Btu	N / A	N / A	N / A	N / A

<sup>1</sup> T. E. I. standards for Thermo Environmental Instruments, Inc.

6. F-Factor Method: Fuel Analyses and Method 19, Equation 19-15 and/or Method 19, Table 19-2. Please note that the fuel factors are unit specific and are based upon the relative amounts (on a heat input basis) of coal, wood, petroleum coke and tire-derived-fuel (TDF) that are fired within a given time period.

7. Ave. Time	6 Minute	6 Minute	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour
--------------	----------	----------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

8. Zero/Span  
Values

ZERO	0 %	0 %	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 %	0 %	0 %	0 %
SPAN	45 %	45 %	2,000 PPM	2,000 PPM	H: 1,500 PPM <sup>1</sup> L: 200 PPM <sup>1</sup>	H: 1,500 PPM <sup>1</sup> L: 200 PPM <sup>1</sup>	500 PPM	500 PPM	H: 3,000 PPM <sup>2</sup> L: 300 PPM <sup>2</sup>	H: 3,000 PPM <sup>2</sup> L: 300 PPM <sup>2</sup>	20.0 %	20.0 %	20.0 %	20.0 %

<sup>1</sup> The span values for the SO<sub>2</sub> Stack CEMS were revised from 2,000 ppm for the high span and 500 ppm for the low span just prior to the September 2008 Part 75 certification tests. The revised high and low span values were determined in accordance with sections 2.1.1.3 and 2.1.1.4 of Appendix A to 40 CFR Part 75.

<sup>2</sup> The historic span value for each of the CO Stack CEMS was 500 ppm (with a full scale of 2,050 ppm). In May of 2012, the plant implemented dual ranges for each CO CEMS, with a low range span value of 300 ppm and a high range span value of 3,000 ppm.

## T.E.S. FILER CITY STATION

### II. CONTINUOUS MONITOR OPERATIONAL DATA

9. Date of Last Performance Specification Test Passed	Monitoring System	RATA	7-Day Calibration Drift Test	Cycle-time Test	COMS Field Audit Test	COMS 168-hr Operational Test
	Boiler 1 Gas CEMS	08/23/2011	10/31/2006 (Stk SO <sub>2</sub> = 09/25/08)	10/18/2006 (Stk SO <sub>2</sub> = 10/03/08)	N/A	N/A
	Boiler 1 COMS	N/A	N/A	N/A	08/25/2011	10/26/2006
	Boiler 2 Gas CEMS	08/24/2011	10/31/2006 (Stk SO <sub>2</sub> = 09/25/08)	10/23/2006 (Stk SO <sub>2</sub> = 10/03/08)	N/A	N/A
	Boiler 2 COMS	N/A	N/A	N/A	08/25/2011	11/01/2006

10. Modification Since Last PST Date (10-06; 9-08)	# 1 OPACITY	# 2 OPACITY	INLET #1 SO2	INLET #2 SO2	STACK #1 SO2	STACK #2 SO2	STACK #1 NOx	STACK #2 NOx	STACK #1 CO	STACK #2 CO	INLET # 2 CO2	INLET # 2 CO2	STACK #1 CO2	STACK # 2 CO2
	NONE	NONE	NONE	NONE	NONE (Changed high & low span values)	NONE (Changed high & low span values)	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE

11. Emission Limits (Averaging Period)	10 % (6-Min)	10 % (6-Min)	N / A	N / A	0.7 lb/mm Btu (24-Hr) 0.5 lb/mm Btu (30-Day)	0.7 lb/mm Btu (24-Hr) 0.5 lb/mm Btu (30-Day)	0.6 lb/mm Btu (30-Day)	0.6 lb/mm Btu (30-Day)	0.3 lb/mm Btu (24-Hour)	0.3 lb/mm Btu (24-Hour)	N / A	N / A	N / A	N / A

## T.E.S. FILER CITY STATION

### III. MONITORING AND COMPLIANCE SUMMARY (per 40 CFR 60.51a(h))

	YES	NO	REF.
1. Were the required continuous monitoring systems calibrated, span, and drift checks or other periodic audits performed as specified?	<u>X</u>	<u>          </u>	<u>          </u>
2. Were the data used to show compliance obtained in accordance with approved methods and procedures of Subpart Da?	<u>X</u>	<u>          </u>	<u>          </u>
3. Are the data representative of plant performance?	<u>X</u>	<u>          </u>	<u>          </u>
4. Were the minimum data requirements met? If no, were they not met due to unavoidable errors?	<u>X</u>	<u>          </u>	<u>          </u>
5. Was compliance with the standards achieved during the reporting period?	<u>          </u>	<u>X</u>	<u>          </u>

#### Boiler #1

SO <sub>2</sub> Stack Limit 0.7 lb/MMBTU 24 Hour	<u>          </u>	<u>X</u>	<u>          </u>
SO <sub>2</sub> Stack Limit 0.5 lb/MMBTU 30 Day	<u>X</u>	<u>          </u>	<u>          </u>
SO <sub>2</sub> 90% Reduction 30 Day	<u>X</u>	<u>          </u>	<u>          </u>
NO <sub>x</sub> Stack Limit 0.6 lb/MMBTU 30 Day	<u>X</u>	<u>          </u>	<u>          </u>
Opacity Limit >10% 6 Minute Average	<u>          </u>	<u>X</u>	<u>          </u>

#### Boiler #2

SO <sub>2</sub> Stack Limit 0.7 lb/MMBTU 24 Hour	<u>          </u>	<u>X</u>	<u>          </u>
SO <sub>2</sub> Stack Limit 0.5 lb/MMBTU 30 Day	<u>X</u>	<u>          </u>	<u>          </u>
SO <sub>2</sub> 90% Reduction 30 Day	<u>X</u>	<u>          </u>	<u>          </u>
NO <sub>x</sub> Stack Limit 0.6 lb/MMBTU 30 Day	<u>X</u>	<u>          </u>	<u>          </u>
Opacity Limit >10% 6 Minute Average	<u>          </u>	<u>X</u>	<u>          </u>

**T.E.S. FILER CITY STATION****V. EXCESS EMISSION REPORT - SO<sub>2</sub> AND NO<sub>x</sub>****SO<sub>2</sub> EVENTS (30 Day Rolling Average Limit of 0.5 lb/MMBTU)**

Date(s) Occurred	Boiler No.	Value (lb/mm Btu)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

**SO<sub>2</sub> EVENTS (24 Hour Average Limit of 0.7 lb/MMBTU)**

Date(s) Occurred	Boiler No.	Value (lb/mm Btu)	Cause	Corrective Action
04/23/2012 (24 Op Hrs)	1	1.0	Boiler startup (SU) following a routine maintenance outage; SO <sub>2</sub> dry scrubber had to be bypassed to pre-warm the baghouse & maintain the required minimum inlet temperature.	Followed the Maintenance Management Plan (MMP); boiler & baghouse were brought up to full operating temp. as quickly as possible; scrubber was placed into service per manufacturer recommendations.
04/18/2012 (10 Op Hrs)	2	1.0	Boiler startup (SU) following a routine maintenance outage; SO <sub>2</sub> dry scrubber had to be bypassed to pre-warm the baghouse & maintain the required minimum inlet temperature.	Followed the Maintenance Management Plan (MMP); boiler & baghouse were brought up to full operating temp. as quickly as possible; scrubber was placed into service per manufacturer recommendations.
04/23/2012 (24 Op Hrs)	2	0.9	Boiler was shutdown the morning of 04/19/2012 due to an oil leak in the inboard bearing on the electrical turbine; SU commenced on 04/23/2012 after repairs; SO <sub>2</sub> dry scrubber had to be bypassed to pre-warm the baghouse & maintain the required minimum inlet temperature.	Followed the Maintenance Management Plan (MMP) during the boiler SU; boiler & baghouse were brought up to full operating temp. as quickly as possible; scrubber was placed into service per manufacturer recommendations.

**SO<sub>2</sub> EVENTS (30 Day Rolling Average Limit of SO<sub>2</sub> Percent Reduction: Limit=90%)**

Date(s) Occurred	Boiler No.	Value (% removal)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

**T.E.S. FILER CITY STATION****NO<sub>x</sub> EVENTS (30 Day Rolling Average Limit of 0.60 lb/MMBTU)**

Date(s) Occurred	Boiler No.	Value (lb/mm Btu)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

**OPACITY EVENTS (Excess Emission Notification >10%, 6-Min. Average, for ≥ 2 Hours)**

Date(s) Occurred	Boiler No.	Value (% opacity)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

NOTE: All six minute periods during which the average opacity exceeds 10% are identified in the attached monthly "Excess Emissions Report" for Boiler #1 and Boiler #2.



**T.E.S. FILER CITY STATION****VI. QUALITY ASSURANCE DATA****1a. OUT-OF-CONTROL ASSESSMENT INFORMATION****BOILER # 1****INLET CO<sub>2</sub> METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717873	None	N / A	N / A

**STACK CO<sub>2</sub> METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717869	None	N / A	N / A

**INLET SO<sub>2</sub> METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717879	None	N / A	N / A

**STACK SO<sub>2</sub> METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717877	None	N / A	N / A

**T.E.S. FILER CITY STATION****STACK NO<sub>x</sub> METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 42i – 0623017966	None	N / A	N / A

**OPACITY METER**

Meter	Date(s) Occurred	Description	Corrective Action
D-R 290 – 425692	None	N / A	N / A

2a. Other operating days for which data has not been obtained (18 hrs) or excluded from calculation of average emission rates:

Boiler #1

Date(s) Occurred	Description	Corrective Action
04/23/2012 (Hr 01 – Hr 07)	The NO <sub>x</sub> analyzer malfunctioned, leading to a loss of data.	Restored the NO <sub>x</sub> analyzer to service and ran a passing calibration error test.
05/23/2012 (Hr 12 – Hr 23)	DAHS malfunction; data was lost while attempting to set up a dual range on the CO analyzer.	Completed setup of the CO analyzer dual-range and restored the DAHS to service.
05/24/2012 (Hr 00 – Hr 09)	DAHS malfunction; data was lost while attempting to set up a dual range on the CO analyzer.	Completed setup of the CO analyzer dual-range and restored the DAHS to service.

## **T.E.S. FILER CITY STATION**

### **3a. OUT-OF-CONTROL ASSESSMENT INFORMATION**

Any Boiler 1 CEMS and COMS out-of-control (OOC) periods are generally associated with equipment replacements or excessive calibration drift (CD) error, and they are summarized in Section VI.1a of this report. During this quarter, there were no OOC periods associated with Relative Accuracy Test Audits (RATAs), Cylinder Gas Audits (CGAs), Linearity Tests or CD Error Tests.

When applicable, the duration of each OOC period or other periods of downtime are summarized in the quarterly report document titled "Downtime Report". The information provided in Section VI.1a of this report provides a summary of the OOC period corrective actions. When required, the corrective actions result in the CDs (or relative accuracies) being within the allowed limits.

**T.E.S. FILER CITY STATION****1b. OUT-OF-CONTROL ASSESSMENT INFORMATION****BOILER # 2****INLET CO<sub>2</sub> METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717875	None	N / A	N / A

**STACK CO<sub>2</sub> METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717874	None	N / A	N / A

**INLET SO<sub>2</sub> METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717883	None	N / A	N / A

**STACK SO<sub>2</sub> METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717880	None	N / A	N / A

**T.E.S. FILER CITY STATION****STACK NO<sub>x</sub> METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 42i – 0623017967	None	N / A	N / A

**OPACITY METER**

Meter	Date(s) Occurred	Description	Corrective Action
D-R 290 – 425693	None	N / A	N / A

2b. Other operating days for which data has not been obtained (18 hrs) or excluded from calculation of average emission rates:

Boiler #2

Date(s) Occurred	Description	Corrective Action
05/23/2012 (Hr 11 – Hr 23)	DAHS malfunction; data was lost while attempting to set up a dual range on the CO analyzer.	Completed setup of the CO analyzer dual-range and restored the DAHS to service.

**3b. OUT-OF-CONTROL ASSESSMENT INFORMATION**

Any Boiler 2 CEMS and COMS out-of-control (OOC) periods are generally associated with equipment replacements or excessive calibration drift (CD) error, and they are summarized in Section VI.1a of this report. During this quarter, there were no OOC periods associated with Relative Accuracy Test Audits (RATAs), Cylinder Gas Audits (CGAs), Linearity Tests or CD Error Tests.

When applicable, the duration of each OOC period or other periods of downtime are summarized in the quarterly report document titled “Downtime Report”. The information provided in Section VI.1b of this report provides a summary of the OOC period corrective actions. When required, the corrective actions result in the CDs (or relative accuracies) being within the allowed limits.

## T.E.S. FILER CITY STATION

4. Full Scale Exceedance: Identification of times when pollutant concentration exceeds full span of the continuous monitoring system.

Date(s) Occurred	Boiler No.	Description	Corrective Action
None	1	N / A	N / A
None	2	N / A	N / A

# TES FILER CITY STATION AIR EMISSION SUMMARY

APRIL 2012

	OPACITY			SULFUR DIOXIDE									NITROGEN OXIDES		
	<6 MINUTE AVE OF 10 %			<24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			<30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			>90% SO2 REDUCTION LIMIT 30 DAY AVE			<30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HR	BLR FIRING HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP
MONTH	37944 /	37968	99.94%	479.0 /	503.0	95.23%	503.0 /	503.0	100.00%	503.0 /	503.0	100.00%	503.0 /	503.0	100.00%
YTD			99.95%			99.11%			100.00%			100.00%			100.00%
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HR	BLR FIRING HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP
MONTH	37926 /	37932	99.98%	536.0 /	570.0	94.04%	570.0 /	570.0	100.00%	570.0 /	570.0	100.00%	570.0 /	570.0	100.00%
YTD			99.92%			98.77%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH

24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING

ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

# TES FILER CITY STATION AIR EMISSION SUMMARY

MAY 2012

	OPACITY			SULFUR DIOXIDE									NITROGEN OXIDES		
	<6 MINUTE AVE OF 10 %			<24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			<30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			>90% SO2 REDUCTION LIMIT 30 DAY AVE			<30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HR	BLR FIRING HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP
MONTH	44544 /	44550	99.99%	742.0 /	742.0	100.00%	742.0 /	742.0	100.00%	742.0 /	742.0	100.00%	742.0 /	742.0	100.00%
YTD			99.96%			99.30%			100.00%			100.00%			100.00%
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HR	BLR FIRING HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP
MONTH	44514 /	44538	99.95%	712.0 /	712.0	100.00%	712.0 /	712.0	100.00%	712.0 /	712.0	100.00%	712.0 /	712.0	100.00%
YTD			99.93%			99.02%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH

24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING

ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24



# TES FILER CITY STATION AIR EMISSION SUMMARY

**JUNE 2012**

	OPACITY			SULFUR DIOXIDE									NITROGEN OXIDES		
	<6 MINUTE AVE OF 10 %			<24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			<30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			>90% SO2 REDUCTION LIMIT 30 DAY AVE			<30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HR	BLR FIRING HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP
MONTH	42660 /	42660	100.00%	667.0 /	667.0	100.00%	667.0 /	667.0	100.00%	667.0 /	667.0	100.00%	667.0 /	667.0	100.00%
YTD			99.96%			99.41%			100.00%			100.00%			100.00%
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HR	BLR FIRING HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP
MONTH	43182 /	43200	99.96%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%
YTD			99.93%			99.19%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH

24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING

ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

# TES FILER CITY STATION AIR EMISSION SUMMARY

## 2<sup>nd</sup> QUARTER 2012

	OPACITY			SULFUR DIOXIDE									NITROGEN OXIDES		
	<6 MINUTE AVE OF 10 %			<24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			<30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			>90% SO2 REDUCTION LIMIT 30 DAY AVE			<30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
APR	37944 /	37968	99.94%	479.0 /	503.0	95.23%	503.0 /	503.0	100.00%	503.0 /	503.0	100.00%	503.0 /	503.0	100.00%
MAY	44544 /	44550	99.99%	742.0 /	742.0	100.00%	742.0 /	742.0	100.00%	742.0 /	742.0	100.00%	742.0 /	742.0	100.00%
JUN	42660 /	42660	100.00%	667.0 /	667.0	100.00%	667.0 /	667.0	100.00%	667.0 /	667.0	100.00%	667.0 /	667.0	100.00%
2 <sup>nd</sup> Quarter	125148 /	125178	99.98%	1,888.0 /	1,912.0	98.74%	1,912.0 /	1,912.0	100.00%	1,912.0 /	1,912.0	100.00%	1,912.0 /	1,912.0	100.00%
YTD			99.96%			99.41%			100.00%			100.00%			100.00%
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
APR	37926 /	37932	99.98%	536.0 /	570.0	94.04%	570.0 /	570.0	100.00%	570.0 /	570.0	100.00%	570.0 /	570.0	100.00%
MAY	44514 /	44538	99.95%	712.0 /	712.0	100.00%	712.0 /	712.0	100.00%	712.0 /	712.0	100.00%	712.0 /	712.0	100.00%
JUN	43182 /	43200	99.96%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%
2 <sup>nd</sup> Quarter	125622 /	125670	99.96%	1,968.0 /	2,002.0	98.30%	2,002.0 /	2,002.0	100.00%	2,002.0 /	2,002.0	100.00%	2,002.0 /	2,002.0	100.00%
YTD			99.93%			99.19%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH

24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING

ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

# CEMS Daily Averages - 04/01/12 To 06/30/12

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Period: 04/01/12 00:00:00 To 06/30/12 23:59:59; Records = 91

Date	Operating Hours		NOx		SO2		SO2		SO2		Blr 1&2	
	CEMS		30-Day		24-Hr		30-Day		30-Day		SO2	
			lb/mmBt	Vld	lb/mmBt	Vld	lb/mmBt	Vld	% Red.	Vld	Tons	Vld
04/01/12	24		0.365	30	0.151	24	0.174	30	92.64	30	1.42	24
04/02/12	24		0.366	30	0.136	24	0.172	30	92.71	30	1.38	24
04/03/12	4		0.366	30	0.052	04	0.172	30	92.71	30	1.08	24
04/04/12	0		0.366	30	0.000	00	0.172	30	92.71	30	0.84	24
04/05/12	16		0.366	30	0.382	15	0.172	30	92.71	30	1.11	23
04/06/12	24		0.365	30	0.168	24	0.171	30	92.73	30	1.60	24
04/07/12	24		0.365	30	0.089	24	0.165	30	92.98	30	0.93	24
04/08/12	24		0.365	30	0.085	24	0.163	30	93.04	30	0.91	24
04/09/12	24		0.365	30	0.106	24	0.160	30	93.11	30	0.99	24
04/10/12	24		0.365	30	0.158	24	0.159	30	93.17	30	1.48	24
04/11/12	24		0.364	30	0.114	24	0.155	30	93.30	30	1.13	24
04/12/12	24		0.364	30	0.106	24	0.152	30	93.40	30	1.01	24
04/13/12	24		0.363	30	0.164	24	0.151	30	93.40	30	1.35	24
04/14/12	24		0.363	30	0.197	24	0.154	30	93.31	30	1.71	24
04/15/12	24		0.361	30	0.148	24	0.154	30	93.36	30	1.29	24
04/16/12	0		0.361	30	0.000	00	0.154	30	93.36	30	0.00	00
04/17/12	0		0.361	30	0.000	00	0.154	30	93.36	30	0.00	00
04/18/12	0		0.361	30	0.000	00	0.154	30	93.36	30	0.00	09
04/19/12	0		0.361	30	0.000	00	0.154	30	93.36	30	0.00	08
04/20/12	0		0.361	30	0.000	00	0.154	30	93.36	30	0.00	00
04/21/12	3		0.361	30	0.000	00	0.154	30	93.36	30	0.00	00
04/22/12	0		0.361	30	0.000	00	0.154	30	93.36	30	0.00	00
04/23/12	24		0.363	29	1.000	23	0.166	29	92.25	30	2.08	23
04/24/12	24		0.363	29	0.123	24	0.165	29	92.31	30	1.10	24
04/25/12	24		0.362	29	0.163	24	0.164	29	92.35	30	1.43	24
04/26/12	24		0.365	29	0.194	24	0.166	29	92.29	30	1.65	24
04/27/12	24		0.365	29	0.158	24	0.165	29	92.33	30	1.27	24
04/28/12	24		0.366	29	0.221	24	0.165	29	92.27	30	1.78	24
04/29/12	24		0.368	29	0.173	24	0.165	29	92.25	30	1.73	24
04/30/12	24		0.368	29	0.200	24	0.166	29	92.22	30	1.86	24
05/01/12	24		0.368	29	0.173	24	0.165	29	92.27	30	1.88	24
05/02/12	24		0.372	29	0.339	24	0.171	29	92.06	30	1.91	24
05/03/12	24		0.379	29	0.171	24	0.171	29	92.10	30	0.73	24
05/04/12	24		0.386	29	0.113	24	0.169	29	92.16	30	0.53	24
05/05/12	24		0.385	29	0.159	24	0.170	29	92.14	30	1.35	24
05/06/12	24		0.383	29	0.133	24	0.169	29	92.17	30	1.18	24
05/07/12	24		0.383	29	0.157	24	0.168	29	92.15	30	1.33	24

Date	Operating Hours		NOx		SO2		SO2		SO2		Blr 1&2	
	CEMS		30-Day		24-Hr		30-Day		30-Day		SO2	
			lb/mmBt	Vld	lb/mmBt	Vld	lb/mmBt	Vld	% Red.	Vld	Tons	Vld
05/08/12	24		0.383	29	0.160	24	0.169	29	92.10	30	1.45	24
05/09/12	22		0.383	29	0.123	21	0.169	29	92.10	30	0.92	21
05/10/12	24		0.381	29	0.108	24	0.167	29	92.15	30	1.12	24
05/11/12	24		0.381	29	0.150	24	0.168	29	92.08	30	1.34	24
05/12/12	24		0.380	29	0.101	24	0.167	29	92.14	30	1.12	24
05/13/12	24		0.380	29	0.126	24	0.166	29	92.13	30	1.16	24
05/14/12	24		0.383	29	0.145	24	0.165	29	92.17	30	1.25	24
05/15/12	24		0.384	29	0.076	24	0.165	29	92.18	30	0.73	24
05/16/12	24		0.385	29	0.095	24	0.165	29	92.16	30	0.80	24
05/17/12	24		0.386	29	0.158	24	0.167	29	92.09	30	1.27	24
05/18/12	24		0.387	29	0.150	24	0.167	29	92.10	30	1.32	24
05/19/12	24		0.387	29	0.152	24	0.168	29	92.05	30	1.39	24
05/20/12	24		0.387	29	0.120	24	0.169	29	92.04	30	0.90	24
05/21/12	24		0.388	29	0.138	24	0.168	29	92.07	30	1.28	24
05/22/12	24		0.389	29	0.186	24	0.167	29	92.05	30	1.73	24
05/23/12	24		0.392	28	0.177	12	0.168	28	91.22	29	0.00	13
05/24/12	24		0.390	28	0.154	14	0.155	28	91.03	28	0.00	15
05/25/12	24		0.390	28	0.137	24	0.156	28	89.56	28	0.86	24
05/26/12	24		0.389	28	0.169	24	0.156	28	89.54	28	1.48	24
05/27/12	24		0.387	28	0.151	24	0.155	28	89.58	28	1.51	24
05/28/12	24		0.387	28	0.137	24	0.154	28	89.61	28	1.40	24
05/29/12	24		0.385	28	0.159	24	0.152	28	89.71	28	1.51	24
05/30/12	24		0.383	28	0.157	24	0.151	28	89.73	28	1.42	24
05/31/12	24		0.383	28	0.109	24	0.148	28	89.82	28	1.13	24
06/01/12	24		0.382	28	0.113	24	0.146	28	89.87	28	1.11	24
06/02/12	24		0.378	28	0.131	24	0.139	28	90.13	28	1.20	24
06/03/12	24		0.370	28	0.101	24	0.136	28	90.20	28	1.04	24
06/04/12	24		0.362	28	0.123	24	0.137	28	90.15	28	1.29	24
06/05/12	24		0.362	28	0.128	24	0.136	28	90.17	28	1.25	24
06/06/12	24		0.363	28	0.111	24	0.135	28	90.19	28	1.18	24
06/07/12	24		0.363	28	0.120	24	0.134	28	90.23	28	1.20	24
06/08/12	24		0.362	28	0.122	24	0.132	28	90.29	28	1.19	24
06/09/12	24		0.363	28	0.139	24	0.134	28	90.24	28	1.30	24
06/10/12	24		0.364	28	0.164	24	0.134	28	90.24	28	1.47	24
06/11/12	24		0.365	28	0.121	24	0.135	28	90.23	28	1.19	24
06/12/12	24		0.365	28	0.124	24	0.135	28	90.26	28	1.23	24
06/13/12	24		0.365	28	0.119	24	0.134	28	90.31	28	1.01	24
06/14/12	24		0.366	28	0.151	24	0.136	28	90.21	28	1.39	24
06/15/12	24		0.367	28	0.165	24	0.139	28	90.12	28	1.51	24
06/16/12	23		0.367	28	0.159	23	0.139	28	90.12	28	1.47	24
06/17/12	0		0.367	28	0.000	00	0.139	28	90.12	28	0.77	24

Date	Operating Hours	NOx		SO2		SO2		SO2		Blr 1&2	
	CEMS	30-Day		24-Hr		30-Day		30-Day		SO2	
		lb/mmBt	Vld	lb/mmBt	Vld	lb/mmBt	Vld	% Red.	Vld	Tons	Vld
06/18/12	0	0.367	28	0.000	00	0.139	28	90.12	28	0.57	24
06/19/12	20	0.367	28	0.305	20	0.139	28	90.12	28	1.03	24
06/20/12	24	0.366	28	0.148	24	0.138	28	90.14	28	1.39	24
06/21/12	24	0.366	28	0.147	24	0.138	28	90.15	28	1.29	24
06/22/12	24	0.366	28	0.144	24	0.138	28	90.18	28	1.42	24
06/23/12	24	0.367	28	0.164	24	0.139	28	90.12	28	1.54	24
06/24/12	24	0.366	28	0.153	24	0.140	28	90.11	28	1.49	24
06/25/12	24	0.367	28	0.141	24	0.138	28	90.20	28	1.34	24
06/26/12	24	0.368	29	0.266	24	0.142	29	90.87	29	1.88	24
06/27/12	24	0.370	30	0.144	24	0.142	30	92.19	30	1.29	24
06/28/12	24	0.372	30	0.144	24	0.142	30	93.60	30	1.32	24
06/29/12	24	0.374	30	0.144	24	0.141	30	93.65	30	1.36	24
06/30/12	24	0.377	30	0.132	24	0.141	30	93.70	30	1.21	24

# CEMS Daily Averages - 04/01/12 To 06/30/12

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Period: 04/01/12 00:00:00 To 06/30/12 23:59:59; Records = 91

Date	Operating Hours		NOx		SO2		SO2		SO2	
	CEMS		30-Day	Vld	24-Hr	Vld	30-Day	Vld	% Red.	Vld
04/01/12	24		0.350	30	0.150	24	0.184	30	92.20	30
04/02/12	24		0.351	30	0.154	24	0.182	30	92.26	30
04/03/12	24		0.352	30	0.213	24	0.183	30	92.24	30
04/04/12	24		0.353	30	0.169	24	0.180	30	92.32	30
04/05/12	24		0.356	30	0.176	24	0.181	30	92.27	30
04/06/12	24		0.359	30	0.172	24	0.182	30	92.24	30
04/07/12	24		0.361	30	0.108	24	0.178	30	92.40	30
04/08/12	24		0.363	30	0.108	24	0.174	30	92.50	30
04/09/12	24		0.365	30	0.105	24	0.171	30	92.63	30
04/10/12	24		0.367	30	0.160	24	0.170	30	92.69	30
04/11/12	24		0.370	30	0.127	24	0.168	30	92.75	30
04/12/12	24		0.372	30	0.106	24	0.164	30	92.89	30
04/13/12	24		0.374	30	0.125	24	0.162	30	92.99	30
04/14/12	24		0.375	30	0.173	24	0.163	30	92.98	30
04/15/12	24		0.375	30	0.186	24	0.162	30	93.01	30
04/16/12	0		0.375	30	0.000	00	0.162	30	93.01	30
04/17/12	0		0.375	30	0.000	00	0.162	30	93.01	30
04/18/12	10		0.375	30	0.959	09	0.162	30	93.01	30
04/19/12	8		0.375	30	0.185	08	0.162	30	93.01	30
04/20/12	0		0.375	30	0.000	00	0.162	30	93.01	30
04/21/12	0		0.375	30	0.000	00	0.162	30	93.01	30
04/22/12	0		0.375	30	0.000	00	0.162	30	93.01	30
04/23/12	24		0.379	30	0.946	24	0.170	29	92.00	30
04/24/12	24		0.379	30	0.116	24	0.167	29	92.14	30
04/25/12	24		0.380	30	0.144	24	0.165	29	92.25	30
04/26/12	24		0.382	30	0.158	24	0.162	29	92.33	30
04/27/12	24		0.383	30	0.113	24	0.161	29	92.39	30
04/28/12	24		0.384	30	0.159	24	0.160	29	92.43	30
04/29/12	24		0.386	30	0.190	24	0.160	29	92.41	30
04/30/12	24		0.387	30	0.197	24	0.160	29	92.47	30
05/01/12	24		0.387	30	0.233	24	0.162	29	92.41	30
05/02/12	24		0.390	30	0.204	24	0.162	29	92.39	30
05/03/12	24		0.396	30	0.131	24	0.160	29	92.49	30
05/04/12	24		0.402	30	0.105	24	0.158	29	92.57	30
05/05/12	24		0.402	30	0.150	24	0.158	29	92.55	30
05/06/12	24		0.402	30	0.124	24	0.158	29	92.54	30
05/07/12	24		0.401	30	0.133	24	0.159	29	92.50	30

Date	Operating Hours		NOx		SO2		SO2		SO2		
	CEMS		30-Day		24-Hr		30-Day		30-Day		
			lb/mmBt	Vld	lb/mmBt	Vld	lb/mmBt	Vld	% Red.	Vld	
05/08/12	24		0.402	30	0.157	24	0.159	29	92.47	30	0.00
05/09/12	22		0.402	30	0.112	21	0.159	29	92.47	30	0.00
05/10/12	24		0.402	30	0.137	24	0.159	29	92.49	30	0.00
05/11/12	24		0.403	30	0.141	24	0.156	29	92.58	30	0.00
05/12/12	24		0.403	30	0.141	24	0.155	29	92.62	30	0.00
05/13/12	24		0.402	30	0.130	24	0.154	29	92.68	30	0.00
05/14/12	24		0.402	30	0.152	24	0.153	29	92.70	30	0.00
05/15/12	24		0.401	30	0.104	24	0.153	29	92.71	30	0.00
05/16/12	24		0.402	30	0.104	24	0.153	29	92.71	30	0.00
05/17/12	24		0.403	30	0.142	24	0.154	29	92.66	30	0.00
05/18/12	24		0.402	30	0.148	24	0.154	29	92.66	30	0.00
05/19/12	24		0.400	30	0.154	24	0.155	29	92.61	30	0.00
05/20/12	24		0.398	30	0.080	24	0.154	29	92.65	30	0.00
05/21/12	24		0.398	30	0.141	24	0.154	29	92.63	30	0.00
05/22/12	24		0.398	30	0.189	24	0.155	29	92.58	30	0.00
05/23/12	24		0.399	29	0.152	11	0.155	28	91.79	29	0.00
05/24/12	11		0.399	29	0.123	01	0.155	28	91.79	29	0.00
05/25/12	7		0.399	29	0.179	07	0.155	28	91.79	29	0.00
05/26/12	24		0.396	29	0.148	24	0.146	29	92.86	29	0.00
05/27/12	24		0.396	29	0.168	24	0.148	29	92.76	29	0.00
05/28/12	24		0.396	29	0.161	24	0.148	29	92.72	29	0.00
05/29/12	24		0.395	29	0.166	24	0.148	29	92.71	29	0.00
05/30/12	24		0.395	29	0.149	24	0.150	29	92.65	29	0.00
05/31/12	24		0.395	29	0.131	24	0.149	29	92.68	29	0.00
06/01/12	24		0.394	29	0.124	24	0.146	29	92.76	29	0.00
06/02/12	24		0.394	29	0.127	24	0.144	29	92.81	29	0.00
06/03/12	24		0.395	29	0.123	24	0.140	29	92.91	29	0.00
06/04/12	24		0.393	29	0.152	24	0.139	29	92.93	29	0.00
06/05/12	24		0.388	29	0.140	24	0.139	29	92.89	29	0.00
06/06/12	24		0.384	29	0.140	24	0.140	29	92.80	29	0.00
06/07/12	24		0.386	29	0.139	24	0.140	29	92.79	29	0.00
06/08/12	24		0.387	29	0.135	24	0.140	29	92.75	29	0.00
06/09/12	24		0.388	29	0.145	24	0.141	29	92.72	29	0.00
06/10/12	24		0.389	29	0.159	24	0.141	29	92.71	29	0.00
06/11/12	24		0.390	29	0.141	24	0.141	29	92.73	29	0.00
06/12/12	24		0.390	29	0.145	24	0.141	29	92.74	29	0.00
06/13/12	24		0.391	29	0.103	24	0.140	29	92.80	29	0.00
06/14/12	24		0.392	29	0.150	24	0.140	29	92.78	29	0.00
06/15/12	24		0.393	29	0.163	24	0.141	29	92.76	29	0.00
06/16/12	24		0.392	29	0.169	24	0.143	29	92.68	29	0.00
06/17/12	24		0.390	29	0.156	24	0.145	29	92.61	29	0.00

Date	Operating Hours		NOx		SO2		SO2		SO2		0.00
	CEMS		30-Day		24-Hr		30-Day		30-Day		
			lb/mmBt	Vld	lb/mmBt	Vld	lb/mmBt	Vld	% Red.	Vld	
06/18/12	24		0.387	29	0.116	24	0.144	29	92.64	29	0.00
06/19/12	24		0.387	29	0.151	24	0.144	29	92.65	29	0.00
06/20/12	24		0.387	29	0.153	24	0.144	29	92.65	29	0.00
06/21/12	24		0.387	29	0.137	24	0.146	29	92.57	29	0.00
06/22/12	24		0.389	29	0.165	24	0.146	29	92.54	29	0.00
06/23/12	24		0.389	29	0.174	24	0.146	29	92.57	29	0.00
06/24/12	24		0.389	30	0.175	24	0.147	30	93.32	30	0.00
06/25/12	24		0.390	30	0.152	24	0.147	30	93.33	30	0.00
06/26/12	24		0.392	30	0.151	24	0.146	30	93.38	30	0.00
06/27/12	24		0.393	30	0.149	24	0.146	30	93.42	30	0.00
06/28/12	24		0.394	30	0.150	24	0.145	30	93.45	30	0.00
06/29/12	24		0.394	30	0.156	24	0.146	30	93.47	30	0.00
06/30/12	24		0.395	30	0.133	24	0.146	30	93.49	30	0.00



Continuous Emission Monitor Quarterly Report Summary  
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 Opacity

Emission Limitation: 10

Reporting Period Dates: From 4/01/2012 To 6/30/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/25/11

Total Source Operating Time in Reporting Period: 20863 periods

CEMS Performance Summary	Total CEMS Downtimes including exemptions	
	%	
	Duration	Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	9	0.04
3. Calibration/QA	6	0.03
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	15	0.07

Durations in 6-minute periods

(1) % Unavailable is calculated by the following formula:

% Unavailable = CEMS Downtime during Source Operating Time/ Source Operating Time x 100

Emission Data Summary		
1. Duration of excess emissions in reporting period due to:	% Excess Emissions(2)	
	Duration	
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	5	0.02
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	5	0.02

Durations in 6-minute periods

(2) % Excess Emissions is calculated by the following formulas:

% Excess Emissions = Total Duration of Excess Emissions/ Source Operating Time x 100

On a separate page, describe any changes since last reporting period in CMS, process or controls.

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this report are true, accurate, and complete.

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NAME

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7-30-12  
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## Continuous Emission Monitor Quarterly Report Summary

## Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 NOx lb/mmBtu 30-Day

Emission Limitation: 0.60

Reporting Period Dates: From 4/01/2012 To 6/30/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/23/11

Total Source Operating Time in Reporting Period: 1912 hours

## CEMS Performance Summary

Total CEMS Downtimes  
including exemptions

		%
1. CEMS downtime in reporting period due to:	Duration	Unavailable (1)
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	4	0.21
3. Calibration/QA	8	0.42
4. Other Known Causes	0	0.00
5. Unknown Causes	22	1.15
2. Total CEMS Downtime	34	1.78

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

## Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 SO<sub>2</sub> lb/mmBtu 24-Hr

Emission Limitation: 0.7

Reporting Period Dates: From 4/01/2012 To 6/30/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/23/11

Total Source Operating Time in Reporting Period: 1912 hours

CEMS Performance Summary	Total CEMS Downtimes including exemptions	
	Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	4	0.21
3. Calibration/QA	2	0.10
4. Other Known Causes	0	0.00
5. Unknown Causes	22	1.15
2. Total CEMS Downtime	28	1.46

Durations in hours

(1) % Unavailable is calculated by the following formula:

% Unavailable = CEMS Downtime during Source Operating Time / Source Operating Time x 100

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	24	1.26
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	24	1.26

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

% Excess Emissions = Total Duration of Excess Emissions / Source Operating Time x 100

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## Continuous Emission Monitor Quarterly Report Summary

## Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 SO<sub>2</sub> lb/mmBtu 30-Day

Emission Limitation: 0.5

Reporting Period Dates: From 4/01/2012 To 6/30/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/23/11

Total Source Operating Time in Reporting Period: 1912 hours

CEMS Performance Summary	Total CEMS Downtimes including exemptions	
	Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	4	0.21
3. Calibration/QA	2	0.10
4. Other Known Causes	0	0.00
5. Unknown Causes	22	1.15
2. Total CEMS Downtime	28	1.46

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

## Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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## Continuous Emission Monitor Quarterly Report Summary

## Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 SO<sub>2</sub> Reduction 30-Day

Emission Limitation: 90

Reporting Period Dates: From 4/01/2012 To 6/30/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/23/11

Total Source Operating Time in Reporting Period: 1912 hours

CEMS Performance Summary	Total CEMS Downtimes including exemptions	
	Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	4	0.21
3. Calibration/QA	2	0.10
4. Other Known Causes	0	0.00
5. Unknown Causes	22	1.15
2. Total CEMS Downtime	28	1.46

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

## Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

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Continuous Emission Monitor Quarterly Report Summary  
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boilers Total SO<sub>2</sub> Tons

Emission Limitation: 6.45

Reporting Period Dates: From 4/01/2012 To 6/30/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boilers

Date of Last CEMS Certification or Audit: 08/24/11

Total Source Operating Time in Reporting Period: 2035 hours

CEMS Performance Summary

Total CEMS Downtimes  
including exemptions

		%
	Duration	Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	4	0.20
3. Calibration/QA	2	0.10
4. Other Known Causes	0	0.00
5. Unknown Causes	20	0.98
2. Total CEMS Downtime	26	1.28

Durations in hours

(1) % Unavailable is calculated by the following formula:

% Unavailable = CEMS Downtime during Source Operating Time/ Source Operating Time x 100

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

% Excess Emissions = Total Duration of Excess Emissions/ Source Operating Time x 100

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Continuous Emission Monitor Quarterly Report Summary  
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 CO lb/mmBtu 24-Hr

Emission Limitation: 0.3

Reporting Period Dates: From 4/01/2012 To 6/30/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/23/11

Total Source Operating Time in Reporting Period: 1912 hours

CEMS Performance Summary	Total CEMS Downtimes including exemptions	
	Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	22	1.15
2. Non-Monitor CEMS Equipment Malfunction	4	0.21
3. Calibration/QA	2	0.10
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	28	1.46

Durations in hours

(1) % Unavailable is calculated by the following formula:

% Unavailable = CEMS Downtime during Source Operating Time/ Source Operating Time x 100

Emission Data Summary		
1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	95	4.97
5. Unknown Causes	24	1.26
2. Total duration of excess emissions.....	119	6.22

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

% Excess Emissions = Total Duration of Excess Emissions/ Source Operating Time x 100

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## Continuous Emission Monitor Quarterly Report Summary

## Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 CO lb/hr 24-Hr

Emission Limitation: 115.2

Reporting Period Dates: From 4/01/2012 To 6/30/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/23/11

Total Source Operating Time in Reporting Period: 1912 hours

CEMS Performance Summary	Total CEMS Downtimes including exemptions	
	Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	21	1.10
2. Non-Monitor CEMS Equipment Malfunction	4	0.21
3. Calibration/QA	2	0.10
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	27	1.41

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

## Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	8	0.42
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	40	2.09
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	48	2.51

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

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Continuous Emission Monitor Quarterly Report Summary  
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 Opacity

Emission Limitation: 10

Reporting Period Dates: From 4/01/2012 To 6/30/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/25/11

Total Source Operating Time in Reporting Period: 20945 periods

CEMS Performance Summary	Total CEMS Downtimes including exemptions	
	%	
	Duration	Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	48	0.23
2. Non-Monitor CEMS Equipment Malfunction	6	0.03
3. Calibration/QA	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	54	0.26

Durations in 6-minute periods

(1) % Unavailable is calculated by the following formula:

$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	% Excess Emissions(2)	
	Duration	
1. Startup/Shutdown	2	0.01
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	6	0.03
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	8	0.04

Durations in 6-minute periods

(2) % Excess Emissions is calculated by the following formulas:

$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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Continuous Emission Monitor Quarterly Report Summary  
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 NOx lb/mmBtu 30-Day

Emission Limitation: 0.60

Reporting Period Dates: From 4/01/2012 To 6/30/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/24/11

Total Source Operating Time in Reporting Period: 2002 hours

CEMS Performance Summary

Total CEMS Downtimes  
including exemptions

		%
	Duration	Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	24	1.20
3. Calibration/QA	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	24	1.20

Durations in hours

(1) % Unavailable is calculated by the following formula:

% Unavailable = CEMS Downtime during Source Operating Time/ Source Operating Time x 100

Emission Data Summary

		% Excess
	Duration	Emissions(2)
1. Duration of excess emissions in reporting period due to:		
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

% Excess Emissions = Total Duration of Excess Emissions/ Source Operating Time x 100

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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Continuous Emission Monitor Quarterly Report Summary  
Gaseous and Opacity Excess Emission and Monitoring System Performance  
Pollutant: Boiler 2 SO2 lb/mmBtu 24-Hr  
Emission Limitation: 0.7  
Reporting Period Dates: From 4/01/2012 To 6/30/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/24/11

Total Source Operating Time in Reporting Period: 2002 hours

CEMS Performance Summary	Total CEMS Downtimes including exemptions	
	Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	24	1.20
3. Calibration/QA	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	24	1.20

Durations in hours

(1) % Unavailable is calculated by the following formula:

% Unavailable = CEMS Downtime during Source Operating Time/ Source Operating Time x 100

#### Emission Data Summary

1. Duration of excess emissions in reporting period due to:	% Excess Emissions(2)	
	Duration	
1. Startup/Shutdown	34	1.70
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	34	1.70

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

% Excess Emissions = Total Duration of Excess Emissions/ Source Operating Time x 100

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Continuous Emission Monitor Quarterly Report Summary  
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 SO2 lb/mmBtu 30-Day

Emission Limitation: 0.5

Reporting Period Dates: From 4/01/2012 To 6/30/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/24/11

Total Source Operating Time in Reporting Period: 2002 hours

CEMS Performance Summary

Total CEMS Downtimes  
including exemptions

	%	
	Duration	Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	24	1.20
3. Calibration/QA	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	24	1.20

Durations in hours

(1) % Unavailable is calculated by the following formula:

% Unavailable = CEMS Downtime during Source Operating Time/ Source Operating Time x 100

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

% Excess Emissions = Total Duration of Excess Emissions/ Source Operating Time x 100

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## Continuous Emission Monitor Quarterly Report Summary

## Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 SO<sub>2</sub> Reduction 30-Day

Emission Limitation: 90

Reporting Period Dates: From 4/01/2012 To 6/30/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/24/11

Total Source Operating Time in Reporting Period: 2002 hours

## CEMS Performance Summary

Total CEMS Downtimes  
including exemptions

		%
	Duration	Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	24	1.20
3. Calibration/QA	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	24	1.20

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

## Emission Data Summary

		% Excess
	Duration	Emissions(2)
1. Duration of excess emissions in reporting period due to:		
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

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Env. Planner  
TITLE

7-30-12  
DATE

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 CO lb/mmBtu 24-Hr

Emission Limitation: 0.3

Reporting Period Dates: From 4/01/2012 To 6/30/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/24/11

Total Source Operating Time in Reporting Period: 2002 hours

CEMS Performance Summary

Total CEMS Downtimes  
including exemptions

		%
	Duration	Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	2	0.10
2. Non-Monitor CEMS Equipment Malfunction	24	1.20
3. Calibration/QA	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	26	1.30

Durations in hours

(1) % Unavailable is calculated by the following formula:

% Unavailable = CEMS Downtime during Source Operating Time/ Source Operating Time x 100

Emission Data Summary

		% Excess
	Duration	Emissions(2)
1. Duration of excess emissions in reporting period due to:		
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	31	1.55
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	31	1.55

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

% Excess Emissions = Total Duration of Excess Emissions/ Source Operating Time x 100

On a separate page, describe any changes since last reporting period in CMS, process or controls.

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this report are true, accurate, and complete.

<u>Jason M. Prentice</u>	<u>Jason M. Prentice</u>	<u>Env. Planner</u>	<u>7-30-12</u>
NAME	SIGNATURE	TITLE	DATE

## Continuous Emission Monitor Quarterly Report Summary

## Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 CO lb/hr 24-Hr

Emission Limitation: 115.2

Reporting Period Dates: From 4/01/2012 To 6/30/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/24/11

Total Source Operating Time in Reporting Period: 2002 hours

## CEMS Performance Summary

Total CEMS Downtimes  
including exemptions

		%
1. CEMS downtime in reporting period due to:	Duration	Unavailable (1)
1. Monitor Equipment Malfunctions	24	1.20
2. Non-Monitor CEMS Equipment Malfunction	1	0.05
3. Calibration/QA	1	0.05
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	26	1.30

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

## Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	17	0.85
5. Unknown Causes	5	0.25
2. Total duration of excess emissions.....	22	1.10

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this report are true, accurate, and complete.

Jason M. Prentice  
NAME

Jason M. Prentice  
SIGNATURE

Env. Planner  
TITLE

7-30-12  
DATE

## Downtime Report

**Facility Name:** T.E.S. Filer City Station**Location:** Filer City, MI**Source:** Boiler 1**Parameter:** Opacity**Data in the Reporting Period: 04/01/12 to 06/30/12**

Incid. No.	Start Date	End Date	Duration Periods	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	05/23/12 07:42:36	05/23/12 08:17:42	6	15=Preventative Maintenance	3=Quality Assurance Calibrations	
2	05/23/12 11:30:38	05/23/12 12:05:38	6	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	
3	05/23/12 14:36:38	05/23/12 14:41:38	1	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	
4	05/24/12 07:48:38	05/24/12 07:59:38	2	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	

**Total Downtime in the Reporting Period = 15 Periods , Data Availability for this Reporting Period = 99.93 %****Total Operating Time in the Reporting Period = 20863 Periods**



## Downtime Report

**Facility Name:** T.E.S. Filer City Station**Location:** Filer City, MI**Source:** Boiler 1**Parameter:** NOx CEMS**Data in the Reporting Period: 04/01/12 to 06/30/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	04/05/12 08:00:38	04/05/12 08:59:38	1	14=Recalibration	3=Quality Assurance Calibrations	
2	04/21/12 12:00:37	04/21/12 14:59:36	3	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	
3	04/23/12 00:00:36	04/23/12 06:59:37	7	14=Recalibration	3=Quality Assurance Calibrations	
4	05/09/12 05:00:38	05/09/12 05:59:38	1	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	
5	05/23/12 12:00:37	05/24/12 09:59:37	22	82=	5=Unknown Causes	

**Total Downtime in the Reporting Period = 34 hours , Data Availability for this Reporting Period = 98.22 %****Total Operating Time in the Reporting Period = 1912 hours**

## Downtime Report

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** SO2 CEMS

**Data in the Reporting Period: 04/01/12 to 06/30/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	04/05/12 08:00:38	04/05/12 08:59:38	1	14=Recalibration	3=Quality Assurance Calibrations	
2	04/21/12 12:00:37	04/21/12 14:59:36	3	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	
3	04/23/12 00:00:36	04/23/12 00:59:36	1	14=Recalibration	3=Quality Assurance Calibrations	
4	05/09/12 05:00:38	05/09/12 05:59:38	1	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	
5	05/23/12 12:00:37	05/24/12 09:59:37	22	10=	5=Unknown Causes	

**Total Downtime in the Reporting Period = 28 hours , Data Availability for this Reporting Period = 98.54 %**

**Total Operating Time in the Reporting Period = 1912 hours**

## Downtime Report

**Facility Name:** T.E.S. Filer City Station**Location:** Filer City, MI**Source:** Boiler 1**Parameter:** CO #/MMBTU CEMS**Data in the Reporting Period: 04/01/12 to 06/30/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	04/05/12 08:00:38	04/05/12 08:59:38	1	14=Recalibration	3=Quality Assurance Calibrations	
2	04/21/12 12:00:37	04/21/12 14:59:36	3	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	
3	04/23/12 00:00:36	04/23/12 00:59:36	1	14=Recalibration	3=Quality Assurance Calibrations	
4	05/09/12 05:00:38	05/09/12 05:59:38	1	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	
5	05/23/12 12:00:37	05/24/12 09:59:37	22	12=Excess Drift Ancillary Analyzer	1=Monitor Equip Malfunctions	

**Total Downtime in the Reporting Period = 28 hours , Data Availability for this Reporting Period = 98.54 %****Total Operating Time in the Reporting Period = 1912 hours**

## Downtime Report

**Facility Name:** T.E.S. Filer City Station**Location:** Filer City, MI**Source:** Boiler 1**Parameter:** CO #/HOUR CEMS**Data in the Reporting Period: 04/01/12 to 06/30/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	04/05/12 08:00:38	04/05/12 08:59:38	1	14=Recalibration	3=Quality Assurance Calibrations	
2	04/21/12 12:00:37	04/21/12 14:59:36	3	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	
3	04/23/12 00:00:36	04/23/12 00:59:36	1	14=Recalibration	3=Quality Assurance Calibrations	
4	05/09/12 05:00:38	05/09/12 05:59:38	1	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	
5	05/23/12 12:00:37	05/23/12 14:59:37	3	12=Excess Drift Ancillary Analyzer	1=Monitor Equip Malfunctions	
6	05/23/12 16:00:37	05/24/12 09:59:37	18	12=Excess Drift Ancillary Analyzer	1=Monitor Equip Malfunctions	

**Total Downtime in the Reporting Period = 27 hours , Data Availability for this Reporting Period = 98.59 %****Total Operating Time in the Reporting Period = 1912 hours**

## Downtime Report

**Facility Name:** T.E.S. Filer City Station**Location:** Filer City, MI**Source:** Boiler 1**Parameter:** CO2 Analyzer**Data in the Reporting Period: 04/01/12 to 06/30/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	04/05/12 08:00:38	04/05/12 08:59:38	1	14=Recalibration	3=Quality Assurance Calibrations	
2	04/21/12 12:00:37	04/21/12 14:59:36	3	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	
3	04/23/12 00:00:36	04/23/12 00:59:36	1	14=Recalibration	3=Quality Assurance Calibrations	
4	05/09/12 05:00:38	05/09/12 05:59:38	1	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	
5	05/23/12 12:00:37	05/24/12 09:59:37	22	10=	5=Unknown Causes	

**Total Downtime in the Reporting Period = 28 hours , Data Availability for this Reporting Period = 98.54 %****Total Operating Time in the Reporting Period = 1912 hours**

## Downtime Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** Flow Analyzer

**Data in the Reporting Period: 04/01/12 to 06/30/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	05/23/12 11:00:37	05/24/12 09:59:37	23	56=	5=Unknown Causes	

**Total Downtime in the Reporting Period = 23 hours , Data Availability for this Reporting Period = 98.80 %**

**Total Operating Time in the Reporting Period = 1912 hours**

## Downtime Report

**Facility Name:** T.E.S. Filer City Station**Location:** Filer City, MI**Source:** Boiler 1**Parameter:** Inlet SO2 CEMS**Data in the Reporting Period: 04/01/12 to 06/30/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	04/05/12 08:00:38	04/05/12 08:59:38	1	14=Recalibration	3=Quality Assurance Calibrations	
2	04/21/12 12:00:37	04/21/12 14:59:36	3	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	
3	04/23/12 00:00:36	04/23/12 00:59:36	1	14=Recalibration	3=Quality Assurance Calibrations	
4	05/09/12 05:00:38	05/09/12 05:59:38	1	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	
5	05/23/12 12:00:37	05/24/12 09:59:37	22	90=	5=Unknown Causes	

**Total Downtime in the Reporting Period = 28 hours , Data Availability for this Reporting Period = 98.54 %****Total Operating Time in the Reporting Period = 1912 hours**

## Downtime Report

**Facility Name:** T.E.S. Filer City Station**Location:** Filer City, MI**Source:** Boiler 1**Parameter:** SO2 Inlet/Outlet CEMS**Data in the Reporting Period: 04/01/12 to 06/30/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	04/05/12 08:00:38	04/05/12 08:59:38	1	14=Recalibration	3=Quality Assurance Calibrations	
2	04/21/12 12:00:37	04/21/12 14:59:36	3	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	
3	04/23/12 00:00:36	04/23/12 00:59:36	1	14=Recalibration	3=Quality Assurance Calibrations	
4	05/09/12 05:00:38	05/09/12 05:59:38	1	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	
5	05/23/12 12:00:37	05/24/12 09:59:37	22	10=	5=Unknown Causes	

**Total Downtime in the Reporting Period = 28 hours , Data Availability for this Reporting Period = 98.54 %****Total Operating Time in the Reporting Period = 1912 hours**



## Downtime Report

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** Opacity

**Data in the Reporting Period: 04/01/12 to 06/30/12**

Incid. No.	Start Date	End Date	Duration Periods	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	05/09/12 04:24:37	05/09/12 08:35:43	42	16=Primary Analyzer Malfunction	1=Monitor Equip Malfunctions	
2	05/23/12 08:06:43	05/23/12 08:41:37	6	16=Primary Analyzer Malfunction	1=Monitor Equip Malfunctions	
3	05/23/12 11:30:37	05/23/12 12:05:37	6	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	

**Total Downtime in the Reporting Period = 54 Periods , Data Availability for this Reporting Period = 99.74 %**

**Total Operating Time in the Reporting Period = 20945 Periods**

## Downtime Report

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** NOx CEMS

**Data in the Reporting Period: 04/01/12 to 06/30/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	05/09/12 05:00:43	05/09/12 05:59:43	1	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	
2	05/23/12 11:00:38	05/24/12 09:59:43	23	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	

**Total Downtime in the Reporting Period = 24 hours , Data Availability for this Reporting Period = 98.85 %**

**Total Operating Time in the Reporting Period = 2002 hours**

## Downtime Report

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** SO2 CEMS

**Data in the Reporting Period: 04/01/12 to 06/30/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	05/09/12 05:00:43	05/09/12 05:59:43	1	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	
2	05/23/12 11:00:38	05/24/12 09:59:43	23	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	

**Total Downtime in the Reporting Period = 24 hours , Data Availability for this Reporting Period = 98.80 %**

**Total Operating Time in the Reporting Period = 2002 hours**

## Downtime Report

**Facility Name:** T.E.S. Filer City Station**Location:** Filer City, MI**Source:** Boiler 2**Parameter:** CO #/MMBTU CEMS**Data in the Reporting Period: 04/01/12 to 06/30/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	04/18/12 16:00:37	04/18/12 16:59:37	1	16=Primary Analyzer Malfunction	1=Monitor Equip Malfunctions	
2	05/09/12 05:00:43	05/09/12 05:59:43	1	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	
3	05/16/12 19:00:38	05/16/12 19:59:38	1	16=Primary Analyzer Malfunction	1=Monitor Equip Malfunctions	
4	05/23/12 11:00:38	05/24/12 09:59:43	23	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	

**Total Downtime in the Reporting Period = 26 hours , Data Availability for this Reporting Period = 98.70 %****Total Operating Time in the Reporting Period = 2002 hours**

## Downtime Report

**Facility Name:** T.E.S. Filer City Station**Location:** Filer City, MI**Source:** Boiler2**Parameter:** CO #/HOUR CEMS**Data in the Reporting Period: 04/01/12 to 06/30/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	04/18/12 14:00:38	04/18/12 14:59:38	1	98=Automatic Calibration	3=Quality Assurance Calibrations	
2	04/18/12 16:00:37	04/18/12 16:59:37	1	16=Primary Analyzer Malfunction	1=Monitor Equip Malfunctions	
3	05/09/12 05:00:43	05/09/12 05:59:43	1	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	
4	05/16/12 19:00:38	05/16/12 19:59:38	1	16=Primary Analyzer Malfunction	1=Monitor Equip Malfunctions	
5	05/23/12 12:00:43	05/24/12 09:59:43	22	11=Excess Drift Primary Analyzer	1=Monitor Equip Malfunctions	

**Total Downtime in the Reporting Period = 26 hours , Data Availability for this Reporting Period = 98.70 %****Total Operating Time in the Reporting Period = 2002 hours**

## Downtime Report

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** CO2 Analyzer

**Data in the Reporting Period: 04/01/12 to 06/30/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	05/09/12 05:00:43	05/09/12 05:59:43	1	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	
2	05/23/12 11:00:38	05/24/12 09:59:43	23	18=Data Handling System Malfunction	2=Non-Monitor Equip Malfunctions	

**Total Downtime in the Reporting Period = 24 hours , Data Availability for this Reporting Period = 98.80 %**

**Total Operating Time in the Reporting Period = 2002 hours**

## Downtime Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** Flow Analyzer

**Data in the Reporting Period: 04/01/12 to 06/30/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	05/23/12 11:00:38	05/24/12 09:59:43	23	56=	5=Unknown Causes	

**Total Downtime in the Reporting Period = 23 hours , Data Availability for this Reporting Period = 98.85 %**

**Total Operating Time in the Reporting Period = 2002 hours**

## Downtime Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** Inlet SO2 CEMS

**Data in the Reporting Period: 04/01/12 to 06/30/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	04/18/12 14:00:38	04/18/12 14:59:38	1	14=Recalibration	3=Quality Assurance Calibrations	
2	05/23/12 12:00:43	05/24/12 09:59:43	22	10=	5=Unknown Causes	

**Total Downtime in the Reporting Period = 23 hours , Data Availability for this Reporting Period = 98.85 %**

**Total Operating Time in the Reporting Period = 2002 hours**

TESFiler0002181



## Downtime Report

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** Inlet CO2 Analyzer

**Data in the Reporting Period: 04/01/12 to 06/30/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	04/18/12 14:00:38	04/18/12 14:59:38	1	14=Recalibration	3=Quality Assurance Calibrations	
2	05/23/12 11:00:38	05/24/12 09:59:43	23	56=	5=Unknown Causes	

**Total Downtime in the Reporting Period = 24 hours , Data Availability for this Reporting Period = 98.80 %**

**Total Operating Time in the Reporting Period = 2002 hours**

## Excess Emissions Report

**Facility Name:** T.E.S. Filer City Station**Location:** Filer City, MI**Source:** Boiler 1**Parameter:** Opacity**Limit:** 10**Data in the Reporting Period: 04/01/12 to 06/30/12**

Inc No.	Start Date	End Date	Duration Periods	Emission Reading	EPA Category	Reason for Incident	Corrective Action
1	04/03/12 04:36:37	04/03/12 04:41:37	1	23	Other Known Causes	Boiler #1 Down Blown Tubes.	Repairing Boiler Tubes.
2	04/03/12 05:36:43	04/03/12 05:53:36	3	49	Other Known Causes	Boiler #1 Down Blown Tubes.	Repair Bad Tubes.
3	05/09/12 04:12:38	05/09/12 04:17:38	1	12	Other Known Causes	Black Light Turbine Down/ Racoon in Main	Corrected Problems and Started Plant Back up.

**Total Duration in the Reporting Period = 5 Periods , Percentage of Operating Time above Excess Emission Limit = 0.02 %****Total Operating Time in the Reporting Period = 20863 Periods**

## Excess Emissions Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** NOx lb/mmBtu 30-Day

**Limit:** 0.60

**Data in the Reporting Period: 04/01/12 to 06/30/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

**Total Duration in the Reporting Period = 0 hours**

**Total Operating Time in the Reporting Period = 1912 hours**

TESFiler0002184

## Excess Emissions Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** SO2 lb/mmBtu Daily Ave.

**Data in the Reporting Period: 04/01/12 to 06/30/12**

Inc No.	Start Date	End Date	Duration hours	Emission	Limit	EPA Category	Reason for Excess Emission	Corrective Action
1	04/23/12 00:00:59	04/23/12 23:59:59	24	1.0	0.7	Startup/Shutdown	Startup following routine maintenance	Followed Maintenance Management Plan

**Total Duration in the Reporting Period = 24 hours , Percentage of Operating Time above Excess Emission Limit = 1.26 %**

**Total Operating Time in the Reporting Period = 1912 hours**

TESFiler0002185

## Excess Emissions Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** SO2 lb/mmBtu 30-Day

**Limit:** 0.5

**Data in the Reporting Period: 04/01/12 to 06/30/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

**Total Duration in the Reporting Period = 0 hours**

**Total Operating Time in the Reporting Period = 1912 hours**

TESFiler0002186

## Excess Emissions Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** SO2 Reduction 30-Day

**Limit:** 90

**Data in the Reporting Period: 04/01/12 to 06/30/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

**Total Duration in the Reporting Period = 0 hours**

**Total Operating Time in the Reporting Period = 1912 hours**

TESFiler0002187

## Excess Emissions Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boilers

**Parameter:** Total SO2 Tons

**Limit:** 6.45

**Data in the Reporting Period: 04/01/12 to 06/30/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

**Total Duration in the Reporting Period = 0 hours**

**Total Operating Time in the Reporting Period = 2035 hours**

TESFiler0002188

# Excess Emissions Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** CO lb/mmBtu 24-Hr Roll

**Limit:** 0.3

**Data in the Reporting Period: 04/01/12 to 06/30/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
1	04/05/12 19:00:43	04/06/12 18:59:42	24	0.4	0.5	Other Known Causes	Started up Boiler #1 after leak repaired	I/R source on CO Analyzer #1 Was Replaced on
2	04/23/12 08:00:36	04/24/12 08:59:42	25	0.9	1.0	Other Known Causes	Control Equipment Problems	Pump failure. Replaced pump.
3	05/02/12 12:00:43	05/03/12 09:59:37	22	0.4	0.5	Other Known Causes	Atomizer Change out on Unit #1	Completed the Atomizer Changeout.
4	05/03/12 13:00:40	05/04/12 12:59:43	24	0.5	0.5	Other Known Causes	Turbine tripped off line	Brought turbine back on line
5	05/16/12 19:00:36	05/17/12 18:59:35	24	0.4	0.4	Unknown Causes		

**Total Duration in the Reporting Period = 119 hours , Percentage of Operating Time above Excess Emission Limit = 6.22 %**

**Total Operating Time in the Reporting Period = 1912 hours**

TESFiler0002189



## Excess Emissions Report

**Facility Name:** T.E.S. Filer City Station**Location:** Filer City, MI**Source:** Boiler 1**Parameter:** CO lb/hr 24-Hr Roll**Limit:** 115.2**Data in the Reporting Period: 04/01/12 to 06/30/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
1	04/05/12 12:00:37	04/07/12 03:59:41	40	134.7	164.6	Other Known Causes	Start up of #1 Boiler	Completed Start up/ Instrument problems on
2	04/23/12 09:00:35	04/23/12 16:59:40	8	131.4	134.5	Startup/Shutdown	Startup /Shutdown	Starting up Boiler #1 after Turbine Repairs.

**Total Duration in the Reporting Period = 48 hours , Percentage of Operating Time above Excess Emission Limit = 2.51 %****Total Operating Time in the Reporting Period = 1912 hours**

## Excess Emissions Report

**Facility Name:** T.E.S. Filer City Station**Location:** Filer City, MI**Source:** Boiler 2**Parameter:** Opacity**Limit:** 10**Data in the Reporting Period: 04/01/12 to 06/30/12**

Inc No.	Start Date	End Date	Duration Periods	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
1	04/10/12 10:30:39	04/10/12 10:35:39	1	36	36	Other Known Causes		
2	05/01/12 05:48:38	05/01/12 05:59:41	2	33	43	Other Known Causes		
3	05/14/12 11:24:40	05/14/12 11:29:40	1	28	28	Other Known Causes		
4	05/22/12 10:36:37	05/22/12 10:41:37	1	77	77	Other Known Causes		
5	06/05/12 09:00:37	06/05/12 09:05:37	1	70	70	Other Known Causes		
6	06/19/12 10:00:37	06/19/12 10:11:40	2	52	58	Startup/Shutdown		

**Total Duration in the Reporting Period = 8 Periods , Percentage of Operating Time above Excess Emission Limit = 0.04 %****Total Operating Time in the Reporting Period = 20945 Periods**

## Excess Emissions Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** NOx lb/mmBtu 30-Day

**Limit:** 0.60

**Data in the Reporting Period: 04/01/12 to 06/30/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

**Total Duration in the Reporting Period = 0 hours**

**Total Operating Time in the Reporting Period = 2002 hours**

TESFiler0002192

## Excess Emissions Report

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** SO2 lb/mmBtu Daily Ave.

**Data in the Reporting Period: 04/01/12 to 06/30/12**

Inc No.	Start Date	End Date	Duration hours	Emission	Limit	EPA Category	Reason for Excess Emission	Corrective Action
1	04/18/12 00:00:59	04/18/12 23:59:59	10	1.0	0.7	Startup/Shutdown	Boiler #2 start up	Completed start up/turbine test
2	04/23/12 00:00:59	04/23/12 23:59:59	24	0.9	0.7	Startup/Shutdown	Startup /Shutdown	Start up completed

**Total Duration in the Reporting Period = 34 hours , Percentage of Operating Time above Excess Emission Limit = 1.70 %**

**Total Operating Time in the Reporting Period = 2002 hours**

## Excess Emissions Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** SO2 lb/mmBtu 30-Day

**Limit:** 0.5

**Data in the Reporting Period: 04/01/12 to 06/30/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

**Total Duration in the Reporting Period = 0 hours**

**Total Operating Time in the Reporting Period = 2002 hours**

TESFiler0002194

## Excess Emissions Report

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** SO2 Reduction 30-Day

**Limit:** 90

**Data in the Reporting Period: 04/01/12 to 06/30/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

**Total Duration in the Reporting Period = 0 hours**

**Total Operating Time in the Reporting Period = 2002 hours**

## Excess Emissions Report

**Facility Name:** T.E.S. Filer City Station**Location:** Filer City, MI**Source:** Boiler 2**Parameter:** CO lb/mmBtu 24-Hr Roll**Limit:** 0.3**Data in the Reporting Period: 04/01/12 to 06/30/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
1	04/19/12 02:00:39	04/19/12 06:59:37	5	0.4	0.5	Other Known Causes	Boiler #2 Shut down for oil leak on Turbine.	Repaired Turbine oil leak and started back up
2	04/23/12 07:00:37	04/24/12 07:59:39	25	0.7	0.8	Other Known Causes	Startup /Shutdown	Start Up and putting Turbine and Generator on
3	05/03/12 08:00:38	05/03/12 08:59:38	1	0.4	0.4	Other Known Causes	Atomizer Change out on Unit #1.	Completed the Atomizer Changeout.

**Total Duration in the Reporting Period = 31 hours , Percentage of Operating Time above Excess Emission Limit = 1.55 %****Total Operating Time in the Reporting Period = 2002 hours**

## Excess Emissions Report

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** CO lb/hr 24-Hr Roll

**Limit:** 115.2

**Data in the Reporting Period: 04/01/12 to 06/30/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
1	04/19/12 03:00:35	04/19/12 07:59:38	5	120.9	128.4	Unknown Causes		
2	04/23/12 00:00:41	04/23/12 16:59:35	17	139.5	151.8	Other Known Causes	Startup /Shutdown	Starting up of Boiler #1 and #2

**Total Duration in the Reporting Period = 22 hours , Percentage of Operating Time above Excess Emission Limit = 1.10 %**

**Total Operating Time in the Reporting Period = 2002 hours**



# Linearity Test Report - 2012Q2

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 1 NOx High Audit Test Results Analyzer Span: 500.00 ppm

Mfr & Model: Thermo 42i

Serial Number: 0623017966

Low-Level Calibration Gas  
(20-30% of Span)  
( 100.00 ppm - 150.00 ppm)

Concentration: 124.00  
Cylinder No.: CC27079  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

Mid-Level Calibration Gas  
(50-60% of Span)  
( 250.00 ppm - 300.00 ppm)

Concentration: 275.00  
Cylinder No.: CC214741  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

High-Level Calibration Gas  
(80-100% of Span)  
( 400.00 ppm - 500.00 ppm)

Concentration: 414.20  
Cylinder No.: CC15492  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

Test Date: 05/24/12

Tester: Duby/Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	07:38:38	126.70	07:43:39	278.20	07:48:39	435.30
Run 2	08:10:39	126.70	08:15:39	274.10	08:20:38	410.30
Run 3	08:52:43	124.60	08:57:42	273.70	09:02:46	409.30
Avg. Monitor Response		126.000		275.333		418.300
Linearity Error		1.6		0.1		1.0
Absolute Difference		2.0		0.3		4.1
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} |}{\text{Cal. Gas Concentration}} \times 100$$

$$\text{Absolute Difference} = \text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} |$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature: \_\_\_\_\_

Print Name: \_\_\_\_\_

Technician/Service Representative

*James Fanning*  
*James Fanning*

TESFiler0002198

# Linearity Test Report - 2012Q2

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 1 SO2 Low Audit Test Results Analyzer Span: 200.00 ppm

Mfr & Model: Thermo 43i

Serial Number: 0622717877

Low-Level Calibration Gas  
(20-30% of Span)  
( 40.000 ppm - 60.000 ppm)

Concentration: 49.380  
Cylinder No.: CC27079  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

Mid-Level Calibration Gas  
(50-60% of Span)  
( 100.00 ppm - 120.00 ppm)

Concentration: 108.30  
Cylinder No.: CC214741  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

High-Level Calibration Gas  
(80-100% of Span)  
( 160.00 ppm - 200.00 ppm)

Concentration: 168.10  
Cylinder No.: CC15492  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

Test Date: 05/24/12

Tester: Duby/Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	07:38:38	52.500	07:43:39	111.00	07:48:39	176.00
Run 2	08:10:39	52.500	08:15:39	110.00	08:20:38	168.40
Run 3	08:52:43	50.800	08:57:42	110.00	09:02:46	168.30
Avg. Monitor Response		51.933		110.333		170.900
Linearity Error		5.2		1.9		1.7
Absolute Difference		2.6		2.0		2.8
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS | Cal. Gas Concentration - Avg. Monitor Response |} \times 100}{\text{Cal. Gas Concentration}}$$

$$\text{Absolute Difference} = \text{ABS | Cal. Gas Concentration - Avg. Monitor Response |}$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature:

*David Duby*

Print Name:

David Duby

Technician/Service Representative

*James Fanning*

*James Fanning*

TESFiler0002199

# Linearity Test Report - 2012Q2

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 1 SO2 High Audit Test Results Analyzer Span: 2000.0 ppm

Mfr & Model: Thermo 43i

Serial Number: 0622717877

Low-Level Calibration Gas  
(20-30% of Span)  
( 400.00 ppm - 600.00 ppm)

Concentration: 498.10  
Cylinder No.: EX009831B  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SC2

Mid-Level Calibration Gas  
(50-60% of Span)  
( 1000.0 ppm - 1200.0 ppm)

Concentration: 1099.0  
Cylinder No.: CC151205  
Expiration Date: 11/16/14

Vendor ID: B62011  
Gas Type Code: SC2

High-Level Calibration Gas  
(80-100% of Span)  
( 1600.0 ppm - 2000.0 ppm)

Concentration: 1707.0  
Cylinder No.: CC18990  
Expiration Date: 11/16/14

Vendor ID: B62011  
Gas Type Code: SC2

Test Date: 05/24/12

Tester: Duby/Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	13:22:44	501.20	13:27:44	1104.8	13:32:49	1686.4
Run 2	13:43:37	505.40	13:48:41	1111.2	13:53:41	1704.0
Run 3	14:08:33	504.20	14:13:40	1109.6	14:18:40	1704.0
Avg. Monitor Response		503.600		1108.53		1698.13
Linearity Error		1.1		0.9		0.5
Absolute Difference		5.5		9.5		8.9
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS | Cal. Gas Concentration - Avg. Monitor Response |} \times 100}{\text{Cal. Gas Concentration}}$$

$$\text{Absolute Difference} = \text{ABS | Cal. Gas Concentration - Avg. Monitor Response |}$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm  
Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %  
Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature: \_\_\_\_\_

Print Name: \_\_\_\_\_

Technician/Service Representative

*David Duby*  
*James Fanning*  
*James Fanning*

TESFiler0002200

# Linearity Test Report - 2012Q2

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 1 CO High Audit Test Results Analyzer Span: 300.0 ppm

Mfr & Model: Thermo 48i

Serial Number: 0622717887

Low-Level Calibration Gas  
(20-30% of Span)  
( 60.0 ppm - 90.0 ppm)

Concentration: 74.5  
Cylinder No.: CC27079  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

Mid-Level Calibration Gas  
(50-60% of Span)  
( 150.0 ppm - 180.0 ppm)

Concentration: 164.0  
Cylinder No.: XC024208B  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

High-Level Calibration Gas  
(80-100% of Span)  
( 240.0 ppm - 300.0 ppm)

Concentration: 247.3  
Cylinder No.: CC15492  
Expiration Date: 01/24/12

Vendor ID: B62011  
Gas Type Code: SNCC

Test Date: 05/24/12

Tester: DDUBY/JFANNING

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	07:38:38	72.5	07:43:39	168.8	07:48:39	247.3
Run 2	08:10:39	72.5	08:15:39	163.2	08:20:38	251.1
Run 3	08:52:43	73.0	08:57:42	164.2	09:02:46	248.4
Avg. Monitor Response		72.667		165.400		248.933
Linearity Error		2.5		0.9		0.7
Absolute Difference		1.8		1.4		1.6
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS | Cal. Gas Concentration - Avg. Monitor Response |}}{\text{Cal. Gas Concentration}} \times 100$$

$$\text{Absolute Difference} = \text{ABS | Cal. Gas Concentration - Avg. Monitor Response |}$$

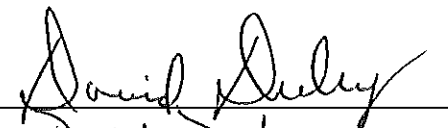
Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature:



Print Name:

David Duby  
Technician/Service Representative

TESFiler0002201

## CGA Test Report - 2012Q2

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 1 CO High Audit Test Results

Analyzer Span: 3000.0 ppm

Mfr & Model: Thermo 48i

Serial Number: 0622717887

Low-Level Calibration Gas  
(20-30% of Span)  
( 600.0 ppm - 900.0 ppm )

Concentration: 735.7  
Cylinder No.: XC009831B  
Expiration Date: 11/16/13

Low-Level Calibration Gas  
(20-30% of Span)  
( 1500.0 ppm - 1800.0 ppm )

Concentration: 1639.0  
Cylinder No.: CC151205  
Expiration Date: 11/16/14

Test Date: 5/24/2012

Tester: Duby/Fanning

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	13:21	735.8	13:26	1593.0
Run 2	13:43	737.8	13:48	1636.7
Run 3	14:08	736.1	14:13	1644.0
Avg. Monitor Response		736.6		1624.6
Calibration Error		0.1		-0.9
Absolute Difference		0.9		14.4
Test Status		Pass		Pass

$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response} - \text{Cal. Gas Concentration}}{\text{Cal. Gas Concentration}} \times 100$$

I have personally performed this Cylinder Gas Audit (CGA) according to the procedures outlined in CFR40, Part 60, Appendix F, Section 5.1.2 and attest that the recorded information on this document is true, accurate, and complete.

Signature: \_\_\_\_\_

*David A. Duby* David A. Duby

Print Name: \_\_\_\_\_

Technician/Service Representative

# Linearity Test Report - 2012Q2

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 1 CO2 Audit Test Results Analyzer Span: 20.000 %

Mfr & Model: Thermo 410i

Serial Number: 0622717869

Low-Level Calibration Gas  
(20-30% of Span)  
( 4.000 % - 6.000 %)

Concentration: 5.550  
Cylinder No.: CC27079  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

Mid-Level Calibration Gas  
(50-60% of Span)  
( 10.000 % - 12.000 %)

Concentration: 11.020  
Cylinder No.: CC214741  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

High-Level Calibration Gas  
(80-100% of Span)  
( 16.000 % - 20.000 %)

Concentration: 16.880  
Cylinder No.: CC15492  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

Test Date: 05/24/12

Tester: Duby/Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	07:38:38	5.500	07:43:39	10.960	07:48:39	17.520
Run 2	08:10:39	5.500	08:15:39	10.910	08:20:38	16.760
Run 3	08:52:43	5.490	08:57:42	10.950	09:02:46	16.760
Avg. Monitor Response		5.497		10.940		17.013
Linearity Error		1.0		0.7		0.8
Absolute Difference		0.1		0.1		0.1
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS | Cal. Gas Concentration - Avg. Monitor Response |} \times 100}{\text{Cal. Gas Concentration}}$$

$$\text{Absolute Difference} = \text{ABS | Cal. Gas Concentration - Avg. Monitor Response |}$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature:

*David Duby*

Print Name:

David Duby

Technician/Service Representative

*James Fanning*

*James Fanning*

TESFiler0002203

# CGA Test Report - 2012Q2

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 1 Inlet SO2 Audit Test Results Analyzer Span: 2000.0 ppm

Mfr & Model: Thermo 43i

Serial Number: 0622717879

Low-Level Calibration Gas Concentration: 498.1  
(20-30% of Span) Cylinder No.: XC009831B  
( 400.0 ppm - 600.0 ppm) Expiration Date: 11/16/13

Mid-Level Calibration Gas Concentration: 1099.0  
(50-60% of Span) Cylinder No.: CC151205  
( 1000.0 ppm - 1200.0 ppm) Expiration Date: 11/16/14

Test Date: 05/24/12

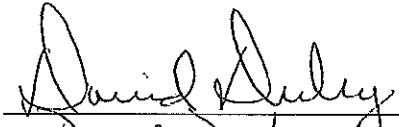
Tester: Duby/Fanning

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	15:38:42	501.6	15:44:47	1088.0
Run 2	16:09:46	504.6	16:15:50	1099.4
Run 3	16:31:38	507.6	16:37:42	1094.4
Avg. Monitor Response		504.6		1093.9
Calibration Error		1.3		-0.5
Absolute Difference		6.5		5.1
Test Status		Pass		Pass

$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response} - \text{Cal. Gas Concentration}}{\text{Cal. Gas Concentration}} \times 100$$

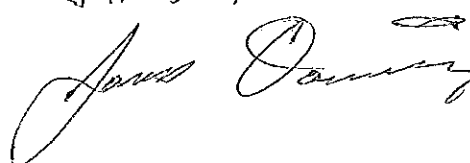
I have personally performed this Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F, Section 5.1.2 and attest that the recorded information on this document is true, accurate, and complete.

Signature:



Print Name:

David Duby  
Technician/Service Representative

James Fanning  


# CGA Test Report - 2012Q2

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 1 Inlet CO2 Audit Test Results Analyzer Span: 20.00 %

Mfr & Model: Thermo 410i

Serial Number: 0622717873

Low-Level Calibration Gas Concentration: 5.69  
(5.00% - 8.00%) Cylinder No.: XC009831B  
Expiration Date: 11/16/13

Mid-Level Calibration Gas Concentration: 11.05  
(10.00% - 14.00%) Cylinder No.: CC151205  
Expiration Date: 11/16/14

Test Date: 05/24/12

Tester: DDUBY/JFANNING

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	15:38:42	5.67	15:44:47	10.96
Run 2	16:09:46	5.67	16:15:50	10.96
Run 3	16:31:38	5.69	16:37:42	10.91
Avg. Monitor Response		5.68		10.94
Calibration Error		-0.2		-1.0
Absolute Difference		0.01		0.11
Test Status		Pass		Pass

$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response} - \text{Cal. Gas Concentration}}{\text{Cal. Gas Concentration}} \times 100$$

I have personally performed this Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F, Section 5.1.2 and attest that the recorded information on this document is true, accurate, and complete.

Signature: \_\_\_\_\_

Print Name: \_\_\_\_\_

Technician/Service Representative



# Linearity Test Report - 2012Q2

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 2 NOx High Audit Test Results Analyzer Span: 500.00 ppm

Mfr & Model: Thermo 42i

Serial Number: 0623017967

Low-Level Calibration Gas  
(20-30% of Span)  
( 100.00 ppm - 150.00 ppm)

Concentration: 124.00  
Cylinder No.: CC27079  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

Mid-Level Calibration Gas  
(50-60% of Span)  
( 250.00 ppm - 300.00 ppm)

Concentration: 275.00  
Cylinder No.: CC214741  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

High-Level Calibration Gas  
(80-100% of Span)  
( 400.00 ppm - 500.00 ppm)

Concentration: 414.20  
Cylinder No.: CC15492  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

Test Date: 05/24/12

Tester: Duby/Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	08:38:40	126.20	08:43:44	275.60	08:48:43	413.70
Run 2	13:08:38	126.50	13:13:40	274.90	13:18:40	415.30
Run 3	13:30:34	126.30	13:35:41	276.00	13:40:42	415.00
Avg. Monitor Response		126.333		275.500		414.667
Linearity Error		1.9		0.2		0.1
Absolute Difference		2.3		0.5		0.5
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} |}{\text{Cal. Gas Concentration}} \times 100$$

$$\text{Absolute Difference} = \text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} |$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature:

*David Duby*

Print Name:

David Duby  
Technician/Service Representative

James Fanning

*James Fanning*

TESFiler0002206

# Linearity Test Report - 2012Q2

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 2 SO2 Low Audit Test Results Analyzer Span: 200.00 ppm

Mfr & Model: Thermo 43i

Serial Number: 0622717880

Low-Level Calibration Gas  
(20-30% of Span)  
( 40.000 ppm - 60.000 ppm)

Concentration: 49.400  
Cylinder No.: CC27079  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

Mid-Level Calibration Gas  
(50-60% of Span)  
( 100.00 ppm - 120.00 ppm)

Concentration: 108.30  
Cylinder No.: CC214741  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

High-Level Calibration Gas  
(80-100% of Span)  
( 160.00 ppm - 200.00 ppm)

Concentration: 168.10  
Cylinder No.: CC15492  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

Test Date: 05/24/12

Tester: Duby/Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	08:38:40	51.500	08:43:44	108.80	08:48:43	165.10
Run 2	13:08:38	49.900	13:13:40	108.20	13:18:40	165.30
Run 3	13:30:34	50.200	13:35:41	107.40	13:40:42	165.20
Avg. Monitor Response		50.533		108.133		165.200
Linearity Error		2.3		0.2		1.7
Absolute Difference		1.1		0.2		2.9
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS | Cal. Gas Concentration - Avg. Monitor Response |} \times 100}{\text{Cal. Gas Concentration}}$$

$$\text{Absolute Difference} = \text{ABS | Cal. Gas Concentration - Avg. Monitor Response |}$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm  
Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %  
Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature:

*David Duby*

Print Name:

David Duby  
Technician/Service Representative

*James Fanning*

*James Fanning*

FESFiler0002207

# Linearity Test Report - 2012Q2

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 2 SO2 High Audit Test Results Analyzer Span: 2000.0 ppm

Mfr & Model: Thermo 43i

Serial Number: 0622717880

Low-Level Calibration Gas  
(20-30% of Span)  
( 400.00 ppm - 600.00 ppm)

Concentration: 498.10  
Cylinder No.: XC009831B  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SC2

Mid-Level Calibration Gas  
(50-60% of Span)  
( 1000.0 ppm - 1200.0 ppm)

Concentration: 1099.0  
Cylinder No.: CC151205  
Expiration Date: 11/16/14

Vendor ID: B62011  
Gas Type Code: SC2

High-Level Calibration Gas  
(80-100% of Span)  
( 1600.0 ppm - 2000.0 ppm)

Concentration: 1707.0  
Cylinder No.: CC18990  
Expiration Date: 11/16/14

Vendor ID: B62011  
Gas Type Code: SC2

Test Date: 05/24/12

Tester: Duby/Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	15:52:44	503.40	15:57:37	1100.2	16:02:39	1692.2
Run 2	16:22:40	501.60	16:27:42	1095.4	16:32:43	1701.2
Run 3	16:43:31	503.40	16:48:35	1105.0	16:53:36	1692.4
Avg. Monitor Response		502.800		1100.20		1695.27
Linearity Error		0.9		0.1		0.7
Absolute Difference		4.7		1.2		11.7
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} |}{\text{Cal. Gas Concentration}} \times 100$$

$$\text{Absolute Difference} = \text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} |$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature: \_\_\_\_\_

Print Name: \_\_\_\_\_

Technician/Service Representative

*James Fanning*  
*James Fanning*

TESFiler0002208

# Linearity Test Report - 2012Q2

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 2 CO High Audit Test Results Analyzer Span: 300.0 ppm

Mfr & Model: Thermo 48i

Serial Number: 0622717888

Low-Level Calibration Gas  
(20-30% of Span)  
( 60.0 ppm - 90.0 ppm)

Concentration: 74.5  
Cylinder No.: CC27079  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

Mid-Level Calibration Gas  
(50-60% of Span)  
( 150.0 ppm - 180.0 ppm)

Concentration: 164.0  
Cylinder No.: XC024208B  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

High-Level Calibration Gas  
(80-100% of Span)  
( 240.0 ppm - 300.0 ppm)

Concentration: 247.3  
Cylinder No.: CC15492  
Expiration Date: 01/24/12

Vendor ID: B62011  
Gas Type Code: SNCC

Test Date: 05/24/12

Tester: DDUBY/JFANNING

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	08:38:40	74.6	08:43:44	164.8	08:48:43	248.4
Run 2	13:08:38	73.7	13:13:40	162.4	13:18:40	245.6
Run 3	13:30:34	71.0	13:35:41	161.0	13:40:42	243.6
Avg. Monitor Response		73.100		162.733		245.867
Linearity Error		1.9		0.8		0.6
Absolute Difference		1.4		1.3		1.4
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS | Cal. Gas Concentration - Avg. Monitor Response |}}{\text{Cal. Gas Concentration}} \times 100$$

$$\text{Absolute Difference} = \text{ABS | Cal. Gas Concentration - Avg. Monitor Response |}$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature: \_\_\_\_\_

Print Name: \_\_\_\_\_

Technician/Service Representative

TESFiler0002209

# Linearity Test Report - 2012Q2

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 2 CO2 Audit Test Results Analyzer Span: 20.000 %

Mfr & Model: Thermo 410i

Serial Number: 0622717874

Low-Level Calibration Gas  
(20-30% of Span)  
( 4.000 % - 6.000 %)

Concentration: 5.550  
Cylinder No.: CC27079  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

Mid-Level Calibration Gas  
(50-60% of Span)  
( 10.000 % - 12.000 %)

Concentration: 11.020  
Cylinder No.: CC214741  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

High-Level Calibration Gas  
(80-100% of Span)  
( 16.000 % - 20.000 %)

Concentration: 16.880  
Cylinder No.: CC15492  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

Test Date: 05/24/12

Tester: Duby/Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	08:38:40	5.530	08:43:44	10.980	08:48:43	16.850
Run 2	13:08:38	5.560	13:13:40	10.980	13:18:40	16.750
Run 3	13:30:34	5.550	13:35:41	10.970	13:40:42	16.730
Avg. Monitor Response		5.547		10.977		16.777
Linearity Error		0.1		0.4		0.6
Absolute Difference		0.0		0.0		0.1
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS | Cal. Gas Concentration - Avg. Monitor Response |} \times 100}{\text{Cal. Gas Concentration}}$$

$$\text{Absolute Difference} = \text{ABS | Cal. Gas Concentration - Avg. Monitor Response |}$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature: David Duby  
Print Name: David Duby  
Technician/Service Representative

James Fanning  
James Fanning  
TESFiler0002210

# CGA Test Report - 2012Q2

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Bfr 2 Inlet SO2 Audit Test Results Analyzer Span: 2000.0 ppm

Mfr & Model: Thermo 43i

Serial Number: 0622717883

Low-Level Calibration Gas Concentration: 498.1  
(20-30% of Span) Cylinder No.: XC009831B  
( 400.0 ppm - 600.0 ppm) Expiration Date: 11/16/13

Mid-Level Calibration Gas Concentration: 1099.0  
(50-60% of Span) Cylinder No.: CC151205  
( 1000.0 ppm - 1200.0 ppm) Expiration Date: 11/16/14

Test Date: 05/24/12

Tester: Duby/Fanning

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	13:52:32	502.0	13:58:40	1093.2
Run 2	14:23:34	500.2	14:29:39	1092.0
Run 3	14:41:35	500.2	14:47:42	1094.6
Avg. Monitor Response		500.8		1093.3
Calibration Error		0.5		-0.5
Absolute Difference		2.7		5.7
Test Status		Pass		Pass

$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response} - \text{Cal. Gas Concentration}}{\text{Cal. Gas Concentration}} \times 100$$

I have personally performed this Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F, Section 5.1.2 and attest that the recorded information on this document is true, accurate, and complete.

Signature:

*David Duby*

Print Name:

*David Duby*

Technician/Service Representative

*James Fanning*  
*James Fanning*

# CGA Test Report - 2012Q2

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 2 Inlet CO2 Audit Test Results Analyzer Span: 20.00 %

Mfr & Model: Thermo 410i

Serial Number: 0622717875

Low-Level Calibration Gas Concentration: 5.69  
(5.00% - 8.00%) Cylinder No.: XC009831B  
Expiration Date: 11/16/13

Mid-Level Calibration Gas Concentration: 11.05  
(10.00% - 14.00%) Cylinder No.: CC151205  
Expiration Date: 11/16/14

Test Date: 05/24/12

Tester: DDUBY/JFANNING

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	13:52:32	5.62	13:58:40	10.93
Run 2	14:23:34	5.63	14:29:39	10.98
Run 3	14:41:35	5.63	14:47:42	10.91
Avg. Monitor Response		5.63		10.94
Calibration Error		-1.1		-1.0
Absolute Difference		0.06		0.11
Test Status		Pass		Pass

$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response} - \text{Cal. Gas Concentration}}{\text{Cal. Gas Concentration}} \times 100$$

I have personally performed this Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F, Section 5.1.2 and attest that the recorded information on this document is true, accurate, and complete.

Signature:

Print Name:

Technician/Service Representative

# CERTIFICATE OF ANALYSIS

## Grade of Product: EPA Protocol

Customer: LANSING  
Part Number: E05NI88E15A0016  
Cylinder Number: XC024208B  
Laboratory: MIC - Royal Oak-32 (SAP) - MI  
PGVP Number: B62011  
Reference Number: 32-400026873-1  
Cylinder Volume: 151 Cu.Ft.  
Cylinder Pressure: 2015 PSIG  
Valve Outlet: 660  
Analysis Date: Nov 16, 2011

Expiration Date: Nov 16, 2013

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.  
Do Not Use This Cylinder below 150 psig i.e. 1 Mega Pascal

ANALYTICAL RESULTS				
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
SULFUR DIOXIDE	110.0 PPM	107.7 PPM	G1	+/- 1% NIST Traceable
CARBON MONOXIDE	165.0 PPM	161.4 PPM	G1	+/- 1% NIST Traceable
NITRIC OXIDE	275.0 PPM	272.0 PPM	G1	+/- 1% NIST Traceable
CARBON DIOXIDE	11.00 %	11.35 %	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

Total oxides of nitrogen 273.4 PPM For Reference Only

CALIBRATION STANDARDS				
Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	08060311	CC254643	250.0PPM CARBON MONOXIDE/NITROGEN	May 15, 2012
NTRM	08061635	CC255794	247.0PPM SULFUR DIOXIDE/NITROGEN	Oct 15, 2012
NTRM	9060606	CC262087	9.921% CARBON DIOXIDE/NITROGEN	Apr 10, 2013
NTRM	10060421	CC268177	495.6PPM NITRIC OXIDE/NITROGEN	Feb 01, 2016

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, 20% FS CO <sub>2</sub> , Nicolet 6700	Fourier Transform Infrared (FTIR)	Oct 28, 2011
E/N 173, 250ppmFS CO, Siemens	Nondispersive Infrared (NDIR)	Nov 15, 2011
E/N 54, 1000 ppmFS NO, Nicolet 6700	Fourier Transform Infrared (FTIR)	Nov 11, 2011
E/N 54, 1000ppmFS SO <sub>2</sub> , Nicolet 6700	Fourier Transform Infrared (FTIR)	Nov 11, 2011

Triad Data Available Upon Request

Notes:

*A. F. Muhammad*



## CERTIFICATE OF ANALYSIS

### Grade of Product: EPA Protocol

Customer: LANSING  
Part Number: E05NI94E15A0008  
Cylinder Number: CC27079  
Laboratory: MIC - Royal Oak-32 (SAP) - MI  
PGVP Number: B62011

Reference Number: 32-400026874-1  
Cylinder Volume: 147 Cu.Ft.  
Cylinder Pressure: 2015 PSIG  
Valve Outlet: 660  
Analysis Date: Nov 16, 2011

Expiration Date: Nov 16, 2013

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.  
Do Not Use This Cylinder below 150 psig, i.e. 1 Mega Pascal

#### ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
SULFUR DIOXIDE	50.00 PPM	49.38 PPM	G1	+/- 1% NIST Traceable
CARBON MONOXIDE	75.00 PPM	74.49 PPM	G1	+/- 1% NIST Traceable
NITRIC OXIDE	125.0 PPM	124.0 PPM	G1	+/- 1% NIST Traceable
CARBON DIOXIDE	5.500 %	5.549 %	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

Total oxides of nitrogen

124.1 PPM

For Reference Only

#### CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	9060606	CC262087	9.921% CARBON DIOXIDE/NITROGEN	Apr 10, 2013
NTRM	09060503	CC280417	98.88PPM CARBON MONOXIDE/NITROGEN	Feb 01, 2013
NTRM	11060215	CC281048	49.67PPM SULFUR DIOXIDE/NITROGEN	May 13, 2017
NTRM	11060139	CC332059	248.4PPM NITRIC OXIDE/NITROGEN	Jan 11, 2017

#### ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, 10% CO <sub>2</sub> , Nicolet 6700	Fourier Transform Infrared (FTIR)	Oct 28, 2011
E/N 173, 100ppmFS CO/N <sub>2</sub> , Siemens Ultramat 6	Nondispersive Infrared (NDIR)	Oct 27, 2011
E/N 54, 250ppmFS NO, Nicolet 6700	Fourier Transform Infrared (FTIR)	Nov 11, 2011
E/N 54, 100ppmFS SO <sub>2</sub> , Nicolet 6700	Fourier Transform Infrared (FTIR)	Nov 11, 2011

Triad Data Available Upon Request

Notes:

*A. F. Muhammad*

## CERTIFICATE OF ANALYSIS

### Grade of Product: EPA Protocol

Airgas Great Lakes

2009 Bellaire Ave.  
Royal Oak, MI 48067-8020  
www.airgas.com

Customer: LANSING  
Part Number: E05NI88E15A0016  
Cylinder Number: CC214741  
Laboratory: MIC - Royal Oak-32 (SAP) - MI  
PGVP Number: B62011

Reference Number: 32-400026873-1  
Cylinder Volume: 151 Cu.Ft.  
Cylinder Pressure: 2015 PSIG  
Valve Outlet: 660  
Analysis Date: Nov 16, 2011

Expiration Date: Nov 16, 2013

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.  
Do Not Use This Cylinder below 150 psig i.e. 1 Mega Pascal

#### ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
SULFUR DIOXIDE	110.0 PPM	108.3 PPM	G1	+/- 1% NIST Traceable
CARBON MONOXIDE	165.0 PPM	164.0 PPM	G1	+/- 1% NIST Traceable
NITRIC OXIDE	275.0 PPM	275.0 PPM	G1	+/- 1% NIST Traceable
CARBON DIOXIDE	11.00 %	11.02 %	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

Total oxides of nitrogen

275.0 PPM

For Reference Only

#### CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	08060311	CC254643	250.0PPM CARBON MONOXIDE/NITROGEN	May 15, 2012
NTRM	08061635	CC255794	247.0PPM SULFUR DIOXIDE/NITROGEN	Oct 15, 2012
NTRM	9060606	CC262087	9.921% CARBON DIOXIDE/NITROGEN	Apr 10, 2013
NTRM	10060421	CC268177	495.6PPM NITRIC OXIDE/NITROGEN	Feb 01, 2016

#### ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, 20% FS CO <sub>2</sub> , Nicolet 6700	Fourier Transform Infrared (FTIR)	Oct 28, 2011
E/N 173, 250ppmFS CO, Siemens	Nondispersive Infrared (NDIR)	Nov 15, 2011
E/N 54, 1000 ppmFS NO, Nicolet 6700	Fourier Transform Infrared (FTIR)	Nov 11, 2011
E/N 54, 1000ppmFS SO <sub>2</sub> , Nicolet 6700	Fourier Transform Infrared (FTIR)	Nov 11, 2011

Triad Data Available Upon Request

Notes:

**Airgas**

3

In of Service 5-25-12

out of Service 7-9-12

# CERTIFICATE OF ANALYSIS

## Grade of Product: EPA Protocol

**Airgas Great Lakes**2009 Bellaire Ave.  
Royal Oak, MI 48067-8020  
www.airgas.comCustomer: LANSING  
Part Number: E05NI82E15A0001  
Cylinder Number: CC15492  
Laboratory: MIC - Royal Oak-32 (SAP) - MI  
PGVP Number: B62011Reference Number: 32-400026875-1  
Cylinder Volume: 155 Cu.Ft.  
Cylinder Pressure: 2015 PSIG  
Valve Outlet: 660  
Analysis Date: Nov 16, 2011

Expiration Date: Nov 16, 2013

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.  
Do Not Use This Cylinder below 150 psig, i.e. 1 Mega Pascal

### ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
SULFUR DIOXIDE	170.0 PPM	168.1 PPM	G1	+/- 1% NIST Traceable
CARBON MONOXIDE	255.0 PPM	247.3 PPM	G1	+/- 1% NIST Traceable
NITRIC OXIDE	425.0 PPM	414.2 PPM	G1	+/- 1% NIST Traceable
CARBON DIOXIDE	17.00 %	16.88 %	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

Total oxides of nitrogen

414.3 PPM

For Reference Only

### CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	08060311	CC254643	250.0PPM CARBON MONOXIDE/NITROGEN	May 15, 2012
NTRM	08061311	CC254763	20.09% CARBON DIOXIDE/NITROGEN	Jul 15, 2012
NTRM	08061635	CC255794	247.0PPM SULFUR DIOXIDE/NITROGEN	Oct 15, 2012
NTRM	10060421	CC268177	495.6PPM NITRIC OXIDE/NITROGEN	Feb 01, 2016

### ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, 20% FS CO <sub>2</sub> , Nicolet 6700	Fourier Transform Infrared (FTIR)	Oct 28, 2011
E/N 173, 250ppmFS CO, Siemens	Nondispersive Infrared (NDIR)	Nov 15, 2011
E/N 54, 1000 ppmFS NO, Nicolet 6700	Fourier Transform Infrared (FTIR)	Nov 11, 2011
E/N 54, 1000ppmFS SO <sub>2</sub> , Nicolet 6700	Fourier Transform Infrared (FTIR)	Nov 11, 2011

Triad Data Available Upon Request

Notes:

A. F. Alhammadi

**Airgas Great Lakes**

2009 Bellaire Ave.  
Royal Oak, MI 48067-8020  
www.airgas.com

## CERTIFICATE OF ANALYSIS

### Grade of Product: EPA Protocol

Customer:	LANSING	Reference Number:	32-400026870-1
Part Number:	E04NI94E15A0013	Cylinder Volume:	147 Cu.Ft.
Cylinder Number:	XC009831B	Cylinder Pressure:	2015 PSIG
Laboratory:	MIC - Royal Oak-32 (SAP) - MI	Valve Outlet:	660
PGVP Number:	B62011	Analysis Date:	Nov 16, 2011

**Expiration Date: Nov 16, 2013**

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.  
Do Not Use This Cylinder below 150 psig i.e. 1 Mega Pascal

ANALYTICAL RESULTS				
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
SULFUR DIOXIDE	500.0 PPM	498.1 PPM	G1	+/- 1% NIST Traceable
CARBON MONOXIDE	750.0 PPM	735.7 PPM	G1	+/- 1% NIST Traceable
CARBON DIOXIDE	5.500 %	5.692 %	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

CALIBRATION STANDARDS				
Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	9060606	CC262087	9.921% CARBON DIOXIDE/NITROGEN	Apr 10, 2013
NTRM	09060421	CC286588	501.3PPM CARBON MONOXIDE/NITROGEN	Feb 01, 2013
NTRM	09061013	CC300405	479.5PPM SULFUR DIOXIDE/NITROGEN	May 15, 2015

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, 10% CO2, Nicolet 6700	Fourier Transform Infrared (FTIR)	Oct 28, 2011
E/N 173, 5000ppmFS CO, Siemens Ultramat 6	Nondispersive Infrared (NDIR)	Oct 27, 2011
E/N 54, 1000ppmFS SO2, Nicolet 6700	Fourier Transform Infrared (FTIR)	Nov 11, 2011

Triad Data Available Upon Request

Notes:

*A. F. Muhammad*

Approved for Release

## CERTIFICATE OF ANALYSIS

### Grade of Product: EPA Protocol

Customer: LANSING  
Part Number: E04NI88E15A1FJ0  
Cylinder Number: CC151205  
Laboratory: MIC - Royal Oak-32 (SAP) - MI  
PGVP Number: B62011  
Reference Number: 32-400026871-1  
Cylinder Volume: 151 Cu.Ft.  
Cylinder Pressure: 2015 PSIG  
Valve Outlet: 660  
Analysis Date: Nov 16, 2011

Expiration Date: Nov 16, 2014

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.  
Do Not Use This Cylinder below 150 psig, i.e. 1 Mega Pascal

ANALYTICAL RESULTS				
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
SULFUR DIOXIDE	1100 PPM	1099 PPM	G1	+/- 1% NIST Traceable
CARBON MONOXIDE	1650 PPM	1638 PPM	G1	+/- 1% NIST Traceable
CARBON DIOXIDE	11.00 %	11.05 %	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

CALIBRATION STANDARDS				
Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	0712609	CC239950	2478PPM SULFUR DIOXIDE/NITROGEN	Mar 23, 2017
NTRM	9060606	CC262087	9.921% CARBON DIOXIDE/NITROGEN	Apr 10, 2013
NTRM	020502	SG9161128BAL	1488PPM CARBON MONOXIDE/NITROGEN	May 15, 2012

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, 20% FS CO <sub>2</sub> , Nicolet 6700	Fourier Transform Infrared (FTIR)	Oct 28, 2011
E/N 173, 5000ppmFS CO, Siemens Ultramat 6	Nondispersive Infrared (NDIR)	Oct 27, 2011
E/N 54, 4800ppmFS SO <sub>2</sub> , Nicolet 6700	Fourier Transform Infrared (FTIR)	Nov 11, 2011

Triad Data Available Upon Request

Notes:

A. F. Muhammad  
Approved for Release

## CERTIFICATE OF ANALYSIS

### Grade of Product: EPA Protocol

Airgas Great Lakes

2009 Bellaire Ave.  
Royal Oak, MI 48067-8020  
www.airgas.com

Customer: LANSING  
Part Number: E04NI82E15A3LD7  
Cylinder Number: CC18990  
Laboratory: MIC - Royal Oak-32 (SAP) - MI  
PGVP Number: B62011  
Reference Number: 32-400026872-1  
Cylinder Volume: 155 Cu.Ft.  
Cylinder Pressure: 2015 PSIG  
Valve Outlet: 660  
Analysis Date: Nov 16, 2011

Expiration Date: Nov 16, 2014

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.  
Do Not Use This Cylinder below 150 psig, i.e. 1 Mega Pascal

#### ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
SULFUR DIOXIDE	1700 PPM	1707 PPM	G1	+/- 1% NIST Traceable
CARBON MONOXIDE	2550 PPM	2541 PPM	G1	+/- 1% NIST Traceable
CARBON DIOXIDE	17.00 %	17.17 %	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

#### CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	05120704	CC180023	2453PPM CARBON MONOXIDE/NITROGEN	Feb 02, 2013
NTRM	0712609	CC239950	2478PPM SULFUR DIOXIDE/NITROGEN	Mar 23, 2017
NTRM	08061311	CC254763	20.09% CARBON DIOXIDE/NITROGEN	Jul 15, 2012

#### ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, 20% FS CO <sub>2</sub> , Nicolet 6700	Fourier Transform Infrared (FTIR)	Oct 28, 2011
E/N 173, 5000ppmFS CO, Siemens Ultramat 6	Nondispersive Infrared (NDIR)	Oct 27, 2011
E/N 54, 4800ppmFS SO <sub>2</sub> , Nicolet 6700	Fourier Transform Infrared (FTIR)	Nov 11, 2011

Triad Data Available Upon Request

Notes:

A. F. Muhammad  
Approved for Release



A CMS Energy Company

Environmental Services

October 30, 2012

Mr. Shane Nixon  
Michigan Department of Environmental Quality  
Air Quality Division  
120 W. Chapin Street  
Cadillac, MI 49601-2158

**SUBJECT: THIRD QUARTER 2012 EMISSIONS MONITORING REPORT**

Dear Mr. Nixon:

Enclosed is the Third Quarter 2012 emissions monitoring report for Boilers No. 1 and No. 2 at the T.E.S. Filer City Station (Renewable Operating Permit No. ROP MI-ROP-N1685-2008a). The report includes all information required under Federal Standards of Performance for New Stationary Sources (40 CFR 60, Subparts A, Da, and Appendix F).

This quarterly report contains the Excess Emissions Reports (EERs) and Summary Reports for Boilers No. 1 and No. 2. Please note that this quarterly report does not include the results of linearity tests conducted in accordance with 40 CFR Part 75, Appendices A and B, or cylinder gas audits (CGAs) conducted in accordance with 40 CFR Part 60, Appendix F, as Relative Accuracy Test Audits (RATAs) of the inlet and outlet monitoring systems were performed in August of 2011. A copy of the RATA report was sent to Ms. Karen Kajiya-Mills of the MDEQ-AQD within 45 days of completing the tests.

Also included in this report are the results of Boilers No. 1 and No. 2 opacity monitor audits conducted in accordance with the US EPA Publication "*Technical Assistance Document – Performance Audit Procedures for Opacity Monitors*", EPA 450/4-92-010. These audits are required as part of the Boilers No. 1 and No. 2 Compliance Assurance Monitoring Plan under 40 CFR Part 64.

No construction/demolition (C/D) materials were fired in Boilers No. 1 and No. 2 during the 3<sup>rd</sup> quarter of 2012. In accordance with the currently approved C/D Waste Wood Monitoring Plan, the facility has discontinued submitting a summary of C/D waste wood sampling and inspection activities on a quarterly basis. An annual C/D summary report will be included with the quarterly report submitted for the 4<sup>th</sup> quarter of 2012.

It should be noted that this quarterly report reflects a higher than typical amount of CO lb/mmBtu and lbs/hr excess emissions. In many respects, these CO excess emissions are similar in nature to those addressed in TES Filer City Station's response to the Violation Notice dated 08/21/2012. As explained in the response letter dated 09/10/2012, the plant has already completed repairs to the turbine vibration monitoring program which was at the root of much of the excess emissions (due to the resulting plant trips and associated higher emissions during startups and shutdown).

Please contact me at (517) 788-1467 or Mr. Richard Brown of TES Filer City Station at (231) 723-6573, Extension 103, if you have any questions or require further information concerning the contents of this quarterly report.

Sincerely,



Jason Prentice  
Environmental Planner  
Consumers Energy Company

cc: Richard Brown, TES Filer City Station  
Karen Kajiya-Mills, MDEQ-AQD  
Filer City Compliance File-Q, SA, A File





MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
AIR QUALITY DIVISION

**RENEWABLE OPERATING PERMIT  
REPORT CERTIFICATION**

*Authorized by 1994 P.A. 451, as amended. Failure to provide this information may result in civil and/or criminal penalties.*

Reports submitted pursuant to R 336.1213 (Rule 213), subrules (3)(c) and/or (4)(c), of Michigan's Renewable Operating Permit (ROP) program must be certified by a responsible official. Additional information regarding the reports and documentation listed below must be kept on file for at least 5 years, as specified in Rule 213(3)(b)(ii), and be made available to the Department of Environmental Quality, Air Quality Division upon request.

Source Name T.E.S. Filer City Station County Manistee

Source Address P.O. Box 12 / 700 Mee Street City Filer City

AQD Source ID (SRN) N1685 ROP No. MI-ROP-N1685-2008a ROP Section No. N/A

Please check the appropriate box(es):

☐ **Annual Compliance Certification (Pursuant to Rule 213(4)(c))**

Reporting period (provide inclusive dates): From \_\_\_\_\_ To \_\_\_\_\_

- ☐ 1. During the entire reporting period, this source was in compliance with **ALL** terms and conditions contained in the ROP, each term and condition of which is identified and included by this reference. The method(s) used to determine compliance is/are the method(s) specified in the ROP.
- ☐ 2. During the entire reporting period this source was in compliance with all terms and conditions contained in the ROP, each term and condition of which is identified and included by this reference, **EXCEPT** for the deviations identified on the enclosed deviation report(s). The method used to determine compliance for each term and condition is the method specified in the ROP, unless otherwise indicated and described on the enclosed deviation report(s).

☐ **Semi-Annual (or More Frequent) Report Certification (Pursuant to Rule 213(3)(c))**

Reporting period (provide inclusive dates): From \_\_\_\_\_ To \_\_\_\_\_

- ☐ 1. During the entire reporting period, **ALL** monitoring and associated recordkeeping requirements in the ROP were met and no deviations from these requirements or any other terms or conditions occurred.
- ☐ 2. During the entire reporting period, all monitoring and associated recordkeeping requirements in the ROP were met and no deviations from these requirements or any other terms or conditions occurred, **EXCEPT** for the deviations identified on the enclosed deviation report(s).

☒ **Other Report Certification**

Reporting period (provide inclusive dates): From 07/01/2012 To 09/30/2012

Additional monitoring reports or other applicable documents required by the ROP are attached as described:

Boilers 1 and 2 Quarterly Report for the 3<sup>rd</sup> Quarter of 2012 (July – September).

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this report and the supporting enclosures are true, accurate and complete

Henry M. Hoffman  
Name of Responsible Official (print or type)

General Manager  
Title

231-723-6573  
Phone Number

Henry M. Hoffman  
Signature of Responsible Official

10-29-2012  
Date

## CONTINUOUS EMISSION MONITORING QUARTERLY REPORT

## Year 2012

## I. GENERAL INFORMATION

- TESFiler0002223

# T.E.S. FILER CITY STATION

## II. CONTINUOUS MONITOR OPERATIONAL DATA

	# 1 OPACITY	# 2 OPACITY	INLET #1 SO2	INLET #2 SO2	STACK #1 SO2	STACK #2 SO2	STACK #1 NOx	STACK #2 NOx	STACK #1 CO	STACK #2 CO	INLET # 1 CO2	INLET # 2 CO2	STACK # 1 CO2	STACK # 2 CO2
1. MFG:	Durag, Inc.	Durag, Inc.	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>
2. MODEL NO:	D-R 290	D-R 290	43i	43i	43i	43i	42i	42i	48i	48i	410i	410i	410i	410i
3. SERIAL NO:	425692	425693	0622717879	0622717883	0622717877	0622717880	0623017966	0623017967	0622717887	0622717888	0622717873	0622717875	0622717869	0622717874
4. Basis for Gas Measurement (wet or dry)	N / A	N / A	WET	WET	WET	WET	WET	WET	WET	WET	WET	WET	WET	WET
5. F-Factor Used	N / A	N / A	F <sub>c</sub> ≈ 1,800 scf/mm Btu	F <sub>c</sub> ≈ 1,800 scf/mm Btu	F <sub>c</sub> ≈ 1,800 scf/mm Btu	F <sub>c</sub> ≈ 1,800 scf/mm Btu	F <sub>c</sub> ≈ 1,800 scf/mm Btu	F <sub>c</sub> ≈ 1,800 scf/mm Btu	F <sub>c</sub> ≈ 1,800 scf/mm Btu	F <sub>c</sub> ≈ 1,800 scf/mm Btu	N / A	N / A	N / A	N / A

<sup>1</sup> T. E. I. standards for Thermo Environmental Instruments, Inc.

6. F-Factor Method: Fuel Analyses and Method 19, Equation 19-15 and/or Method 19, Table 19-2. Please note that the fuel factors are unit specific and are based upon the relative amounts (on a heat input basis) of coal, wood, petroleum coke and tire-derived-fuel (TDF) that are fired within a given time period.

7. Ave. Time	6 Minute	6 Minute	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour
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8. Zero/Span  
Values

ZERO	0 %	0 %	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 %	0 %	0 %	0 %
SPAN	45 %	45 %	2,000 PPM	2,000 PPM	H: 1,500 PPM <sup>1</sup> L: 200 PPM <sup>1</sup>	H: 1,500 PPM <sup>1</sup> L: 200 PPM <sup>1</sup>	500 PPM	500 PPM	H: 3,000 PPM <sup>2</sup> L: 300 PPM <sup>2</sup>	H: 3,000 PPM <sup>2</sup> L: 300 PPM <sup>2</sup>	20.0 %	20.0 %	20.0 %	20.0 %

<sup>1</sup> The span values for the SO<sub>2</sub> Stack CEMS were revised from 2,000 ppm for the high span and 500 ppm for the low span just prior to the September 2008 Part 75 certification tests. The revised high and low span values were determined in accordance with sections 2.1.1.3 and 2.1.1.4 of Appendix A to 40 CFR Part 75.

<sup>2</sup> The historic span value for each of the CO Stack CEMS was 500 ppm (with a full scale of 2,050 ppm). In May of 2012, the plant implemented dual ranges for each CO CEMS, with a low range span value of 300 ppm and a high range span value of 3,000 ppm.

## T.E.S. FILER CITY STATION

### II. CONTINUOUS MONITOR OPERATIONAL DATA

9. Date of Last Performance Specification Test Passed	Monitoring System	RATA	7-Day Calibration Drift Test	Cycle-time Test	COMS Field Audit Test	COMS 168-hr Operational Test
	Boiler 1 Gas CEMS	08/28/2012	10/31/2006 (Stk SO <sub>2</sub> = 09/25/08)	10/18/2006 (Stk SO <sub>2</sub> = 10/03/08)	N/A	N/A
	Boiler 1 COMS	N/A	N/A	N/A	08/27/2012	10/26/2006
	Boiler 2 Gas CEMS	08/29/2012	10/31/2006 (Stk SO <sub>2</sub> = 09/25/08)	10/23/2006 (Stk SO <sub>2</sub> = 10/03/08)	N/A	N/A
	Boiler 2 COMS	N/A	N/A	N/A	08/27/2012	11/01/2006

10. Modification Since Last PST Date (10-06; 9-08)	# 1 OPACITY	# 2 OPACITY	INLET #1 SO2	INLET #2 SO2	STACK #1 SO2	STACK #2 SO2	STACK #1 NOx	STACK #2 NOx	STACK #1 CO	STACK #2 CO	INLET # 2 CO2	INLET # 2 CO2	STACK #1 CO2	STACK # 2 CO2
	NONE	NONE	NONE	NONE	NONE (Changed high & low span vals in 2008)	NONE (Changed high & low span vals in 2008)	NONE	NONE	NONE (Went to dual range as of 5-2012)	NONE (Went to dual range as of 5-2012)	NONE	NONE	NONE	NONE

11. Emission Limits (Averaging Period)	10 % (6-Min)	10 % (6-Min)	N / A	N / A	0.7 lb/mm Btu (24-Hr) 0.5 lb/mm Btu (30-Day)	0.7 lb/mm Btu (24-Hr) 0.5 lb/mm Btu (30-Day)	0.6 lb/mm Btu (30-Day)	0.6 lb/mm Btu (30-Day)	0.3 lb/mm Btu (24-Hour)	0.3 lb/mm Btu (24-Hour)	N / A	N / A	N / A	N / A

**T.E.S. FILER CITY STATION****III. MONITORING AND COMPLIANCE SUMMARY (per 40 CFR 60.51a(h))**

	<u>YES</u>	<u>NO</u>	<u>REF.</u>
1. Were the required continuous monitoring systems calibrated, span, and drift checks or other periodic audits performed as specified?	<u>X</u>	<u>          </u>	<u>          </u>
2. Were the data used to show compliance obtained in accordance with approved methods and procedures of Subpart Da?	<u>X</u>	<u>          </u>	<u>          </u>
3. Are the data representative of plant performance?	<u>X</u>	<u>          </u>	<u>          </u>
4. Were the minimum data requirements met? If no, were they not met due to unavoidable errors?	<u>X</u>	<u>          </u>	<u>          </u>
5. Was compliance with the standards achieved during the reporting period?	<u>          </u>	<u>X</u>	<u>          </u>

**Boiler #1**

SO <sub>2</sub> Stack Limit 0.7 lb/MMBTU 24 Hour	<u>X</u>	<u>          </u>	<u>          </u>
SO <sub>2</sub> Stack Limit 0.5 lb/MMBTU 30 Day	<u>X</u>	<u>          </u>	<u>          </u>
SO <sub>2</sub> 90% Reduction 30 Day	<u>X</u>	<u>          </u>	<u>          </u>
NO <sub>x</sub> Stack Limit 0.6 lb/MMBTU 30 Day	<u>X</u>	<u>          </u>	<u>          </u>
Opacity Limit >10% 6 Minute Average	<u>          </u>	<u>X</u>	<u>          </u>

**Boiler #2**

SO <sub>2</sub> Stack Limit 0.7 lb/MMBTU 24 Hour	<u>X</u>	<u>          </u>	<u>          </u>
SO <sub>2</sub> Stack Limit 0.5 lb/MMBTU 30 Day	<u>X</u>	<u>          </u>	<u>          </u>
SO <sub>2</sub> 90% Reduction 30 Day	<u>X</u>	<u>          </u>	<u>          </u>
NO <sub>x</sub> Stack Limit 0.6 lb/MMBTU 30 Day	<u>X</u>	<u>          </u>	<u>          </u>
Opacity Limit >10% 6 Minute Average	<u>          </u>	<u>X</u>	<u>          </u>

**T.E.S. FILER CITY STATION****V. EXCESS EMISSION REPORT - SO<sub>2</sub> AND NO<sub>x</sub>****SO<sub>2</sub> EVENTS (30 Day Rolling Average Limit of 0.5 lb/MMBTU)**

Date(s) Occurred	Boiler No.	Value (lb/mm Btu)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

**SO<sub>2</sub> EVENTS (24 Hour Average Limit of 0.7 lb/MMBTU)**

Date(s) Occurred	Boiler No.	Value (lb/mm Btu)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

**SO<sub>2</sub> EVENTS (30 Day Rolling Average Limit of SO<sub>2</sub> Percent Reduction: Limit=90%)**

Date(s) Occurred	Boiler No.	Value (% removal)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

**NO<sub>x</sub> EVENTS (30 Day Rolling Average Limit of 0.60 lb/MMBTU)**

Date(s) Occurred	Boiler No.	Value (lb/mm Btu)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

**OPACITY EVENTS (Excess Emission Notification >10%, 6-Min. Average, for ≥ 2 Hours)**

Date(s) Occurred	Boiler No.	Value (% opacity)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

NOTE: All six minute periods during which the average opacity exceeds 10% are identified in the attached monthly "Excess Emissions Report" for Boiler #1 and Boiler #2.

**T.E.S. FILER CITY STATION****VI. QUALITY ASSURANCE DATA****1a. OUT-OF-CONTROL ASSESSMENT INFORMATION****BOILER # 1****INLET CO<sub>2</sub> METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717873	None	N / A	N / A

**STACK CO<sub>2</sub> METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717869	None	N / A	N / A

**INLET SO<sub>2</sub> METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717879	None	N / A	N / A

**STACK SO<sub>2</sub> METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717877	07/11/2012; Hrs 05:00 – 07:00 (3 hrs)	Unit failed calibration error test.	Inspected the SO <sub>2</sub> CEMS equipment (no apparent problems) and ran a passing calibration error test.
TEI 43i – 0622717877	07/14/2012; Hrs 05:00 – 22:00 (18 hrs total)	Unit failed calibration error test. Failure was due to a bad analyzer sample pump.	Replaced the SO <sub>2</sub> analyzer sample pump and ran a passing calibration error test.

## T.E.S. FILER CITY STATION

### STACK NO<sub>x</sub> METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 42i – 0623017966	None	N / A	N / A

### OPACITY METER

Meter	Date(s) Occurred	Description	Corrective Action
D-R 290 – 425692	None	N / A	N / A

2a. Other operating days for which data has not been obtained (18 hrs) or excluded from calculation of average emission rates:

Boiler #1

Date(s) Occurred	Description	Corrective Action
07/14/2012 (SO <sub>2</sub> Only)	Per Section 1a, the SO <sub>2</sub> analyzer failed the calibration error test due to a failed sample pump.	Per Section 1a, the SO <sub>2</sub> analyzer sample pump was replaced and a passing calibration error test was then completed.

### 3a. OUT-OF-CONTROL ASSESSMENT INFORMATION

Any Boiler 1 CEMS and COMS out-of-control (OOC) periods are generally associated with equipment replacements or excessive calibration drift (CD) error, and they are summarized in Section VI.1a of this report. During this quarter, there were no OOC periods associated with Relative Accuracy Test Audits (RATAs), Cylinder Gas Audits (CGAs) or Linearity Tests.

When applicable, the duration of each OOC period or other periods of downtime are summarized in the quarterly report document titled “Downtime Report”. The information provided in Section VI.1a of this report provides a summary of the OOC period corrective actions. When required, the corrective actions result in the CDs (or relative accuracies) being within the allowed limits.



**T.E.S. FILER CITY STATION****1b. OUT-OF-CONTROL ASSESSMENT INFORMATION****BOILER # 2****INLET CO<sub>2</sub> METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717875	None	N / A	N / A

**STACK CO<sub>2</sub> METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717874	None	N / A	N / A

**INLET SO<sub>2</sub> METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717883	None	N / A	N / A

**STACK SO<sub>2</sub> METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717880	None	N / A	N / A

**T.E.S. FILER CITY STATION****STACK NO<sub>x</sub> METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 42i – 0623017967	None	N / A	N / A

**OPACITY METER**

Meter	Date(s) Occurred	Description	Corrective Action
D-R 290 – 425693	None	N / A	N / A

2b. Other operating days for which data has not been obtained (18 hrs) or excluded from calculation of average emission rates:

Boiler #2

Date(s) Occurred	Description	Corrective Action
None	N / A	N / A

**3b. OUT-OF-CONTROL ASSESSMENT INFORMATION**

Any Boiler 2 CEMS and COMS out-of-control (OOC) periods are generally associated with equipment replacements or excessive calibration drift (CD) error, and they are summarized in Section VI.1a of this report. During this quarter, there were no OOC periods associated with Relative Accuracy Test Audits (RATAs), Cylinder Gas Audits (CGAs), Linearity Tests or CD Error Tests.

When applicable, the duration of each OOC period or other periods of downtime are summarized in the quarterly report document titled “Downtime Report”. The information provided in Section VI.1b of this report provides a summary of the OOC period corrective actions. When required, the corrective actions result in the CDs (or relative accuracies) being within the allowed limits.

## T.E.S. FILER CITY STATION

4. Full Scale Exceedance: Identification of times when pollutant concentration exceeds full span of the continuous monitoring system.

Date(s) Occurred	Boiler No.	Description	Corrective Action
None	1	N / A	N / A
None	2	N / A	N / A

# TES FILER CITY STATION AIR EMISSION SUMMARY

**JULY 2012**

	OPACITY			SULFUR DIOXIDE									NITROGEN OXIDES		
	<6 MINUTE AVE OF 10 %			<24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			<30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			>90% SO2 REDUCTION LIMIT 30 DAY AVE			<30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HR	BLR FIRING HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP
MONTH	42576 /	42582	99.99%	711.0 /	711.0	100.00%	711.0 /	711.0	100.00%	711.0 /	711.0	100.00%	711.0 /	711.0	100.00%
YTD			99.97%			99.50%			100.00%			100.00%			100.00%
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HR	BLR FIRING HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP
MONTH	43056 /	43068	99.97%	719.0 /	719.0	100.00%	719.0 /	719.0	100.00%	719.0 /	719.0	100.00%	719.0 /	719.0	100.00%
YTD			99.94%			99.31%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH

24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING

ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

# TES FILER CITY STATION AIR EMISSION SUMMARY

**AUGUST 2012**

	OPACITY <6 MINUTE AVE OF 10 %			SULFUR DIOXIDE									NITROGEN OXIDES		
				<24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			<30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			>90% SO2 REDUCTION LIMIT 30 DAY AVE			<30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HR	BLR FIRING HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP
MONTH	44610 /	44640	99.93%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%
YTD			99.96%			99.57%			100.00%			100.00%			100.00%
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HR	BLR FIRING HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP
MONTH	44574 /	44640	99.85%	689.0 /	689.0	100.00%	689.0 /	689.0	100.00%	689.0 /	689.0	100.00%	689.0 /	689.0	100.00%
YTD			99.93%			99.39%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH

24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING

ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

# TES FILER CITY STATION AIR EMISSION SUMMARY

SEPTEMBER 2012

	OPACITY			SULFUR DIOXIDE									NITROGEN OXIDES		
	<6 MINUTE AVE OF 10 %			<24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			<30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			>90% SO2 REDUCTION LIMIT 30 DAY AVE			<30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HR	BLR FIRING HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP
MONTH	43194 /	43200	99.99%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%
YTD			99.96%			99.62%			100.00%			100.00%			100.00%
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HR	BLR FIRING HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP
MONTH	43170 /	43200	99.93%	639.0 /	639.0	100.00%	639.0 /	639.0	100.00%	639.0 /	639.0	100.00%	639.0 /	639.0	100.00%
YTD			99.93%			99.45%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH

24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING

ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

# TES FILER CITY STATION AIR EMISSION SUMMARY

3<sup>rd</sup> QUARTER 2012

	OPACITY			SULFUR DIOXIDE									NITROGEN OXIDES		
	<6 MINUTE AVE OF 10 %			<24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			<30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			>90% SO2 REDUCTION LIMIT 30 DAY AVE			<30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
JUL	42,576 /	42,582	99.99%	711 /	711	100.00%	711 /	711	100.00%	711 /	711	100.00%	711 /	711	100.00%
AUG	44,610 /	44,640	99.93%	744 /	744	100.00%	744 /	744	100.00%	744 /	744	100.00%	744 /	744	100.00%
SEP	43,194 /	43,200	99.99%	720 /	720	100.00%	720 /	720	100.00%	720 /	720	100.00%	720 /	720	100.00%
3 <sup>rd</sup> Quarter	130,380 /	130,422	99.97%	2,175 /	2,175	100.00%	2,175 /	2,175	100.00%	2,175 /	2,175	100.00%	2,175 /	2,175	100.00%
YTD			99.96%			99.62%			100.00%			100.00%			100.00%
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
JUL	43,056 /	43,068	99.97%	719 /	719	100.00%	719 /	719	100.00%	719 /	719	100.00%	719 /	719	100.00%
AUG	44,574 /	44,640	99.85%	689 /	689	100.00%	689 /	689	100.00%	689 /	689	100.00%	689 /	689	100.00%
SEP	43,170 /	43,200	99.93%	639 /	639	100.00%	639 /	639	100.00%	639 /	639	100.00%	639 /	639	100.00%
3 <sup>rd</sup> Quarter	130,800 /	130,908	99.92%	2,047 /	2,047	100.00%	2,047 /	2,047	100.00%	2,047 /	2,047	100.00%	2,047 /	2,047	100.00%
YTD			99.93%			99.45%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH

24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING

ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

# CEMS Daily Averages - 07/01/12 To 09/30/12

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Period: 07/01/12 00:00:00 To 09/30/12 23:59:59; Records = 92

Date	Operating Hours		NOx		SO2		SO2		SO2		Blr 1&2	
	CEMS		30-Day		24-Hr		30-Day		30-Day		SO2	
			lb/mmBt	Vld	lb/mmBt	Vld	lb/mmBt	Vld	% Red.	Vld	Tons	Vld
07/01/12	24		0.379	30	0.154	24	0.141	30	93.67	30	1.27	24
07/02/12	24		0.382	30	0.163	24	0.141	30	93.67	30	1.43	24
07/03/12	24		0.384	30	0.207	24	0.143	30	93.61	30	1.90	24
07/04/12	24		0.388	30	0.136	24	0.144	30	93.56	30	1.06	24
07/05/12	24		0.392	30	0.111	24	0.144	30	93.58	30	0.77	24
07/06/12	0		0.392	30	0.000	00	0.144	30	93.58	30	0.00	00
07/07/12	15		0.392	30	0.022	04	0.144	30	93.58	30	0.00	11
07/08/12	24		0.392	30	0.128	24	0.144	30	93.58	30	1.32	24
07/09/12	24		0.392	30	0.186	24	0.147	30	93.45	30	1.75	24
07/10/12	24		0.392	30	0.187	24	0.149	30	93.38	30	1.72	24
07/11/12	24		0.393	30	0.142	21	0.150	30	93.38	30	1.22	21
07/12/12	24		0.394	30	0.149	24	0.151	30	93.33	30	1.48	24
07/13/12	24		0.394	30	0.155	24	0.152	30	93.28	30	1.62	24
07/14/12	24		0.394	30	0.122	06	0.153	29	93.27	29	0.00	06
07/15/12	24		0.394	30	0.128	24	0.152	29	93.30	29	1.23	24
07/16/12	24		0.396	30	0.125	24	0.151	29	93.33	29	1.23	24
07/17/12	24		0.397	30	0.150	24	0.152	29	93.25	29	1.48	24
07/18/12	24		0.398	30	0.193	24	0.154	29	93.13	29	1.77	24
07/19/12	24		0.398	30	0.177	24	0.156	29	93.02	29	1.59	24
07/20/12	24		0.398	30	0.176	24	0.157	29	92.95	29	1.56	24
07/21/12	24		0.397	30	0.159	24	0.157	29	92.94	29	1.47	24
07/22/12	24		0.399	30	0.160	24	0.158	29	92.92	29	1.55	24
07/23/12	24		0.399	30	0.156	24	0.158	29	92.91	29	1.51	24
07/24/12	24		0.401	30	0.205	24	0.160	29	92.80	29	1.83	24
07/25/12	24		0.402	30	0.174	24	0.160	29	92.76	29	1.51	24
07/26/12	24		0.403	30	0.159	24	0.160	29	92.72	29	1.43	24
07/27/12	24		0.403	30	0.143	24	0.160	29	92.70	29	1.33	24
07/28/12	24		0.402	30	0.154	24	0.157	29	92.83	29	1.52	24
07/29/12	24		0.401	30	0.156	24	0.157	29	92.79	29	1.56	24
07/30/12	24		0.400	30	0.169	24	0.158	29	92.73	29	1.60	24
07/31/12	24		0.398	30	0.185	24	0.159	29	92.65	29	1.69	24
08/01/12	24		0.396	30	0.195	24	0.161	29	92.54	29	1.77	24
08/02/12	24		0.395	30	0.173	24	0.162	29	92.53	29	1.58	24
08/03/12	24		0.393	30	0.152	24	0.162	29	92.53	29	1.43	24
08/04/12	24		0.393	30	0.178	24	0.161	29	92.57	29	1.54	24
08/05/12	24		0.391	30	0.161	24	0.162	29	92.53	29	1.56	24
08/06/12	24		0.388	30	0.134	24	0.162	29	92.46	29	1.38	24



Date	Operating Hours		NOx		SO2		SO2		SO2		Blr 1&2	
	CEMS		30-Day		24-Hr		30-Day		30-Day		SO2	
			lb/mmBt	Vld	lb/mmBt	Vld	lb/mmBt	Vld	% Red.	Vld	Tons	Vld
08/07/12	24		0.389	30	0.197	24	0.164	29	92.32	29	1.43	24
08/08/12	24		0.390	30	0.094	24	0.161	29	92.46	29	1.06	24
08/09/12	24		0.391	30	0.135	24	0.160	29	92.51	29	1.29	24
08/10/12	24		0.391	30	0.134	24	0.159	29	92.51	29	1.37	24
08/11/12	24		0.390	30	0.113	24	0.158	29	92.57	29	1.04	24
08/12/12	24		0.389	30	0.143	24	0.158	29	92.58	29	1.34	24
08/13/12	24		0.389	30	0.108	24	0.156	30	92.63	30	1.17	24
08/14/12	24		0.388	30	0.139	24	0.156	30	92.61	30	1.47	24
08/15/12	24		0.387	30	0.129	24	0.157	30	92.60	30	1.24	24
08/16/12	24		0.386	30	0.122	24	0.156	30	92.65	30	1.26	24
08/17/12	24		0.385	30	0.149	24	0.154	30	92.70	30	1.44	24
08/18/12	24		0.385	30	0.156	24	0.154	30	92.75	30	1.53	24
08/19/12	24		0.384	30	0.173	24	0.153	30	92.81	30	1.72	24
08/20/12	24		0.384	30	0.197	24	0.155	30	92.79	30	1.97	24
08/21/12	24		0.384	30	0.186	24	0.156	30	92.76	30	1.64	24
08/22/12	24		0.384	30	0.164	24	0.156	30	92.76	30	1.52	24
08/23/12	24		0.383	30	0.120	24	0.153	30	92.89	30	1.28	24
08/24/12	24		0.383	30	0.128	24	0.151	30	92.96	30	1.23	24
08/25/12	24		0.382	30	0.124	24	0.150	30	93.03	30	1.07	24
08/26/12	24		0.381	30	0.133	24	0.150	30	93.05	30	0.60	24
08/27/12	24		0.381	30	0.171	23	0.151	30	93.02	30	0.75	23
08/28/12	24		0.381	30	0.110	24	0.149	30	93.09	30	0.80	22
08/29/12	24		0.384	30	0.099	24	0.147	30	93.19	30	1.07	24
08/30/12	24		0.384	30	0.130	24	0.145	30	93.26	30	1.25	24
08/31/12	24		0.383	30	0.137	24	0.143	30	93.33	30	1.47	24
09/01/12	24		0.383	30	0.147	24	0.142	30	93.36	30	1.59	24
09/02/12	24		0.384	30	0.147	24	0.142	30	93.36	30	1.66	24
09/03/12	24		0.383	30	0.179	24	0.142	30	93.35	30	1.81	24
09/04/12	24		0.382	30	0.189	24	0.143	30	93.33	30	1.73	24
09/05/12	24		0.382	30	0.138	24	0.143	30	93.35	30	1.46	24
09/06/12	24		0.382	30	0.165	24	0.142	30	93.45	30	1.69	24
09/07/12	24		0.381	30	0.181	24	0.145	30	93.35	30	1.75	24
09/08/12	24		0.382	30	0.149	24	0.145	30	93.35	30	1.48	24
09/09/12	24		0.382	30	0.125	24	0.145	30	93.38	30	1.28	24
09/10/12	24		0.382	30	0.143	24	0.146	30	93.34	30	1.52	24
09/11/12	24		0.383	30	0.153	24	0.146	30	93.34	30	1.58	24
09/12/12	24		0.384	30	0.140	24	0.147	30	93.31	30	1.48	24
09/13/12	24		0.384	30	0.175	24	0.149	30	93.28	30	1.74	24
09/14/12	24		0.384	30	0.159	24	0.150	30	93.25	30	1.67	24
09/15/12	24		0.384	30	0.138	24	0.150	30	93.24	30	1.54	24
09/16/12	24		0.383	30	0.161	24	0.150	30	93.24	30	1.74	24

Date	Operating Hours		NOx		SO2		SO2		SO2		Blr 1&2	
	CEMS		30-Day		24-Hr		30-Day		30-Day		SO2	
			lb/mmBt	Vld	lb/mmBt	Vld	lb/mmBt	Vld	% Red.	Vld	Tons	Vld
09/17/12	24		0.381	30	0.164	24	0.151	30	93.24	30	1.58	24
09/18/12	24		0.381	30	0.177	24	0.151	30	93.21	30	1.78	24
09/19/12	24		0.380	30	0.178	24	0.150	30	93.22	30	1.72	24
09/20/12	24		0.379	30	0.248	24	0.152	30	93.15	30	1.12	24
09/21/12	24		0.378	30	0.185	24	0.153	30	93.10	30	0.87	24
09/22/12	24		0.377	30	0.149	24	0.154	30	93.07	30	1.51	24
09/23/12	24		0.378	30	0.152	24	0.154	30	93.05	30	1.62	24
09/24/12	24		0.378	30	0.179	24	0.156	30	92.99	30	1.81	24
09/25/12	24		0.378	30	0.220	24	0.159	30	92.88	30	1.91	24
09/26/12	24		0.378	30	0.175	24	0.159	30	92.89	30	1.67	24
09/27/12	24		0.378	30	0.177	24	0.162	30	92.80	30	1.87	24
09/28/12	24		0.376	30	0.167	24	0.164	30	92.70	30	1.72	24
09/29/12	24		0.376	30	0.178	24	0.165	30	92.65	30	1.20	24
09/30/12	24		0.376	30	0.175	24	0.167	30	92.59	30	0.86	24

# CEMS Daily Averages - 07/01/12 To 09/30/12

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Period: 07/01/12 00:00:00 To 09/30/12 23:59:59; Records = 92

Date	Operating Hours	NOx		SO2		SO2		SO2		
	CEMS	30-Day	Vld	24-Hr	Vld	30-Day	Vld	% Red.	Vld	
07/01/12	24	0.395	30	0.123	24	0.146	30	93.50	30	0.00
07/02/12	24	0.396	30	0.151	24	0.146	30	93.49	30	0.00
07/03/12	24	0.395	30	0.209	24	0.149	30	93.38	30	0.00
07/04/12	24	0.397	30	0.171	24	0.150	30	93.38	30	0.00
07/05/12	24	0.402	30	0.124	24	0.150	30	93.43	30	0.00
07/06/12	0	0.402	30	0.000	00	0.150	30	93.43	30	0.00
07/07/12	23	0.402	30	0.463	22	0.150	30	93.43	30	0.00
07/08/12	24	0.401	30	0.155	24	0.150	30	93.43	30	0.00
07/09/12	24	0.400	30	0.196	24	0.152	30	93.38	30	0.00
07/10/12	24	0.400	30	0.189	24	0.154	30	93.34	30	0.00
07/11/12	24	0.400	30	0.173	24	0.155	30	93.33	30	0.00
07/12/12	24	0.400	30	0.172	24	0.155	30	93.31	30	0.00
07/13/12	24	0.401	30	0.199	24	0.157	30	93.23	30	0.00
07/14/12	24	0.400	30	0.198	24	0.159	30	93.16	30	0.00
07/15/12	24	0.400	30	0.143	24	0.160	30	93.12	30	0.00
07/16/12	24	0.400	30	0.154	24	0.160	30	93.13	30	0.00
07/17/12	24	0.399	30	0.178	24	0.161	30	93.10	30	0.00
07/18/12	24	0.398	30	0.199	24	0.162	30	93.06	30	0.00
07/19/12	24	0.398	30	0.176	24	0.163	30	93.02	30	0.00
07/20/12	24	0.399	30	0.169	24	0.164	30	92.92	30	0.00
07/21/12	24	0.399	30	0.166	24	0.165	30	92.89	30	0.00
07/22/12	24	0.398	30	0.178	24	0.166	30	92.86	30	0.00
07/23/12	24	0.398	30	0.176	24	0.167	30	92.81	30	0.00
07/24/12	24	0.398	30	0.201	24	0.168	30	92.76	30	0.00
07/25/12	24	0.397	30	0.162	24	0.168	30	92.76	30	0.00
07/26/12	24	0.397	30	0.159	24	0.167	30	92.75	30	0.00
07/27/12	24	0.396	30	0.152	24	0.167	30	92.73	30	0.00
07/28/12	24	0.395	30	0.182	24	0.168	30	92.65	30	0.00
07/29/12	24	0.394	30	0.184	24	0.170	30	92.58	30	0.00
07/30/12	24	0.394	30	0.181	24	0.171	30	92.51	30	0.00
07/31/12	24	0.394	30	0.186	24	0.172	30	92.43	30	0.00
08/01/12	24	0.394	30	0.196	24	0.174	30	92.32	30	0.00
08/02/12	24	0.394	30	0.176	24	0.176	30	92.25	30	0.00
08/03/12	24	0.393	30	0.161	24	0.176	30	92.23	30	0.00
08/04/12	24	0.394	30	0.160	24	0.174	30	92.28	30	0.00
08/05/12	24	0.392	30	0.181	24	0.175	30	92.23	30	0.00
08/06/12	24	0.386	30	0.164	24	0.176	30	92.13	30	0.00

Date	Operating Hours	NOx		SO2		SO2		SO2		
	CEMS	30-Day	Vld	24-Hr	Vld	30-Day	Vld	30-Day	Vld	
		lb/mmBt		lb/mmBt		lb/mmBt		% Red.		
08/07/12	24	0.385	30	0.117	24	0.174	30	92.17	30	0.00
08/08/12	24	0.387	30	0.147	24	0.173	30	92.22	30	0.00
08/09/12	24	0.386	30	0.149	24	0.171	30	92.24	30	0.00
08/10/12	24	0.386	30	0.169	24	0.171	30	92.21	30	0.00
08/11/12	24	0.385	30	0.118	24	0.169	30	92.28	30	0.00
08/12/12	24	0.384	30	0.152	24	0.168	30	92.31	30	0.00
08/13/12	24	0.382	30	0.146	24	0.166	30	92.36	30	0.00
08/14/12	24	0.381	30	0.182	24	0.167	30	92.27	30	0.00
08/15/12	24	0.380	30	0.140	24	0.167	30	92.26	30	0.00
08/16/12	24	0.379	30	0.152	24	0.166	30	92.30	30	0.00
08/17/12	24	0.380	30	0.164	24	0.165	30	92.33	30	0.00
08/18/12	24	0.381	30	0.175	24	0.165	30	92.34	30	0.00
08/19/12	24	0.381	30	0.199	24	0.166	30	92.35	30	0.00
08/20/12	24	0.382	30	0.229	24	0.168	30	92.30	30	0.00
08/21/12	24	0.383	30	0.170	24	0.168	30	92.33	30	0.00
08/22/12	24	0.385	30	0.169	24	0.167	30	92.35	30	0.00
08/23/12	24	0.384	30	0.156	24	0.166	30	92.41	30	0.00
08/24/12	24	0.384	30	0.139	24	0.165	30	92.46	30	0.00
08/25/12	21	0.384	30	0.134	21	0.165	30	92.46	30	0.00
08/26/12	0	0.384	30	0.000	00	0.165	30	92.46	30	0.00
08/27/12	0	0.384	30	0.000	00	0.165	30	92.46	30	0.00
08/28/12	20	0.384	30	0.299	18	0.165	30	92.46	30	0.00
08/29/12	24	0.384	30	0.132	24	0.164	30	92.53	30	0.00
08/30/12	24	0.384	30	0.134	24	0.164	30	92.57	30	0.00
08/31/12	24	0.384	30	0.170	24	0.163	30	92.60	30	0.00
09/01/12	24	0.384	30	0.182	24	0.163	30	92.60	30	0.00
09/02/12	24	0.383	30	0.197	24	0.164	30	92.58	30	0.00
09/03/12	24	0.382	30	0.199	24	0.164	30	92.56	30	0.00
09/04/12	24	0.380	30	0.172	24	0.163	30	92.59	30	0.00
09/05/12	24	0.379	30	0.176	24	0.163	30	92.57	30	0.00
09/06/12	24	0.379	30	0.190	24	0.164	30	92.54	30	0.00
09/07/12	24	0.378	30	0.187	24	0.165	30	92.52	30	0.00
09/08/12	24	0.377	30	0.161	24	0.165	30	92.57	30	0.00
09/09/12	24	0.376	30	0.140	24	0.164	30	92.62	30	0.00
09/10/12	24	0.375	30	0.171	24	0.166	30	92.54	30	0.00
09/11/12	24	0.374	30	0.175	24	0.167	30	92.51	30	0.00
09/12/12	24	0.374	30	0.167	24	0.167	30	92.49	30	0.00
09/13/12	24	0.373	30	0.185	24	0.168	30	92.49	30	0.00
09/14/12	24	0.372	30	0.187	24	0.170	30	92.41	30	0.00
09/15/12	24	0.373	30	0.181	24	0.171	30	92.39	30	0.00
09/16/12	24	0.373	30	0.203	24	0.173	30	92.34	30	0.00

Date	Operating Hours	NOx		SO2		SO2		SO2		
	CEMS	30-Day		24-Hr		30-Day		30-Day		
		lb/mmBt	Vld	lb/mmBt	Vld	lb/mmBt	Vld	% Red.	Vld	
09/17/12	24	0.372	30	0.168	24	0.172	30	92.38	30	0.00
09/18/12	24	0.370	30	0.195	24	0.174	30	92.33	30	0.00
09/19/12	24	0.369	30	0.181	24	0.175	30	92.31	30	0.00
09/20/12	4	0.369	30	0.088	04	0.175	30	92.31	30	0.00
09/21/12	0	0.369	30	0.000	00	0.175	30	92.31	30	0.00
09/22/12	21	0.369	30	0.433	21	0.175	30	92.31	30	0.00
09/23/12	24	0.370	30	0.178	24	0.176	30	92.31	30	0.00
09/24/12	24	0.370	30	0.197	24	0.176	30	92.28	30	0.00
09/25/12	24	0.369	30	0.179	24	0.176	30	92.29	30	0.00
09/26/12	24	0.368	30	0.168	24	0.174	30	92.35	30	0.00
09/27/12	24	0.367	30	0.207	24	0.175	30	92.28	30	0.00
09/28/12	24	0.365	30	0.185	24	0.175	30	92.25	30	0.00
09/29/12	14	0.365	30	0.124	14	0.175	30	92.25	30	0.00
09/30/12	0	0.365	30	0.000	00	0.175	30	92.25	30	0.00

Continuous Emission Monitor Quarterly Report Summary  
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 Opacity

Emission Limitation: 10

Reporting Period Dates: From 7/01/2012 To 9/30/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/27/12

Total Source Operating Time in Reporting Period: 21737 periods

CEMS Performance Summary	Total CEMS Downtimes including exemptions	
	Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	5	0.02
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	5	0.02

Durations in 6-minute periods

(1) % Unavailable is calculated by the following formula:

% Unavailable = CEMS Downtime during Source Operating Time/ Source Operating Time x 100

Emission Data Summary		
1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	1	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	6	0.03
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	7	0.03

Durations in 6-minute periods

(2) % Excess Emissions is calculated by the following formulas:

% Excess Emissions = Total Duration of Excess Emissions/ Source Operating Time x 100

On a separate page, describe any changes since last reporting period in CMS, process or controls.

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this report are true, accurate, and complete.

Jason M. Prentice  
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10-30-12  
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Continuous Emission Monitor Quarterly Report Summary  
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 NOx lb/mmBtu 30-Day

Emission Limitation: 0.60

Reporting Period Dates: From 7/01/2012 To 9/30/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/28/12

Total Source Operating Time in Reporting Period: 2175 hours

CEMS Performance Summary

Total CEMS Downtimes  
including exemptions

	Duration	%
		Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	0	0.00

Durations in hours

(1) % Unavailable is calculated by the following formula:

% Unavailable = CEMS Downtime during Source Operating Time/ Source Operating Time x 100

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess
		Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

% Excess Emissions = Total Duration of Excess Emissions/ Source Operating Time x 100

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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Continuous Emission Monitor Quarterly Report Summary  
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 SO<sub>2</sub> lb/mmBtu 24-Hr

Emission Limitation: 0.7

Reporting Period Dates: From 7/01/2012 To 9/30/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/28/12

Total Source Operating Time in Reporting Period: 2175 hours

CEMS Performance Summary

Total CEMS Downtimes  
including exemptions

	Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	21	0.97
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	10	0.46
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	31	1.43

Durations in hours

(1) % Unavailable is calculated by the following formula:

% Unavailable = CEMS Downtime during Source Operating Time/ Source Operating Time x 100

Emission Data Summary

	Duration	% Excess Emissions(2)
1. Duration of excess emissions in reporting period due to:		
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

% Excess Emissions = Total Duration of Excess Emissions/ Source Operating Time x 100

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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## Continuous Emission Monitor Quarterly Report Summary

## Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 SO<sub>2</sub> lb/mmBtu 30-Day

Emission Limitation: 0.5

Reporting Period Dates: From 7/01/2012 To 9/30/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/28/12

Total Source Operating Time in Reporting Period: 2175 hours

## CEMS Performance Summary

Total CEMS Downtimes  
including exemptions

	Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	21	0.97
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	10	0.46
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	31	1.43

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

## Emission Data Summary

	Duration	% Excess Emissions(2)
1. Duration of excess emissions in reporting period due to:		
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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## Continuous Emission Monitor Quarterly Report Summary

## Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 SO<sub>2</sub> Reduction 30-Day

Emission Limitation: 90

Reporting Period Dates: From 7/01/2012 To 9/30/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/28/12

Total Source Operating Time in Reporting Period: 2175 hours

## CEMS Performance Summary

Total CEMS Downtimes  
including exemptions

	Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	21	0.97
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	11	0.51
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	32	1.47

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

## Emission Data Summary

	Duration	% Excess Emissions(2)
1. Duration of excess emissions in reporting period due to:		
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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Continuous Emission Monitor Quarterly Report Summary  
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boilers Total SO<sub>2</sub> Tons

Emission Limitation: 6.45

Reporting Period Dates: From 7/01/2012 To 9/30/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boilers

Date of Last CEMS Certification or Audit: 08/30/12

Total Source Operating Time in Reporting Period: 2183 hours

CEMS Performance Summary

Total CEMS Downtimes  
including exemptions

	Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	21	0.96
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	10	0.46
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	31	1.42

Durations in hours

(1) % Unavailable is calculated by the following formula:

% Unavailable = CEMS Downtime during Source Operating Time/ Source Operating Time x 100

Emission Data Summary

	Duration	% Excess Emissions(2)
1. Duration of excess emissions in reporting period due to:		
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

% Excess Emissions = Total Duration of Excess Emissions/ Source Operating Time x 100

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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## Continuous Emission Monitor Quarterly Report Summary

## Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 CO lb/mmBtu 24-Hr

Emission Limitation: 0.3

Reporting Period Dates: From 7/01/2012 To 9/30/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/28/12

Total Source Operating Time in Reporting Period: 2175 hours

## CEMS Performance Summary

Total CEMS Downtimes  
including exemptions

	Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	2	0.09
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	2	0.09

## Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

## Emission Data Summary

	Duration	% Excess Emissions(2)
1. Duration of excess emissions in reporting period due to:		
1. Startup/Shutdown	22	1.01
2. Control Equip Problems	0	0.00
3. Process Problems	55	2.53
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	77	3.54

## Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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10-30-12  
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Continuous Emission Monitor Quarterly Report Summary  
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 CO lb/hr 24-Hr

Emission Limitation: 115.2

Reporting Period Dates: From 7/01/2012 To 9/30/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/29/12

Total Source Operating Time in Reporting Period: 2175 hours

CEMS Performance Summary

Total CEMS Downtimes  
including exemptions

		%
	Duration	Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	5	0.23
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	5	0.23

Durations in hours

(1) % Unavailable is calculated by the following formula:

% Unavailable = CEMS Downtime during Source Operating Time/ Source Operating Time x 100

Emission Data Summary

		% Excess
	Duration	Emissions(2)
1. Duration of excess emissions in reporting period due to:		
1. Startup/Shutdown	16	0.74
2. Control Equip Problems	0	0.00
3. Process Problems	3	0.14
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	19	0.87

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

% Excess Emissions = Total Duration of Excess Emissions/ Source Operating Time x 100

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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10-30-12  
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Continuous Emission Monitor Quarterly Report Summary  
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 Opacity

Emission Limitation: 10

Reporting Period Dates: From 7/01/2012 To 9/30/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/27/12

Total Source Operating Time in Reporting Period: 21818 periods

CEMS Performance Summary

Total CEMS Downtimes  
including exemptions

	Duration	%
		Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	12	0.06
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	12	0.06

Durations in 6-minute periods

(1) % Unavailable is calculated by the following formula:

% Unavailable = CEMS Downtime during Source Operating Time/ Source Operating Time x 100

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	14	0.06
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	4	0.02
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	18	0.08

Durations in 6-minute periods

(2) % Excess Emissions is calculated by the following formulas:

% Excess Emissions = Total Duration of Excess Emissions/ Source Operating Time x 100

On a separate page, describe any changes since last reporting period in CMS, process or controls.

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this report are true, accurate, and complete.

Jason M. Prentice  
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10-30-12  
DATE

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 NOx lb/mmBtu 30-Day

Emission Limitation: 0.60

Reporting Period Dates: From 7/01/2012 To 9/30/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/29/12

Total Source Operating Time in Reporting Period: 2047 hours

CEMS Performance Summary

Total CEMS Downtimes  
including exemptions

	Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	0	0.00

Durations in hours

(1) % Unavailable is calculated by the following formula:

% Unavailable = CEMS Downtime during Source Operating Time/ Source Operating Time x 100

Emission Data Summary

	Duration	% Excess Emissions(2)
1. Duration of excess emissions in reporting period due to:		
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

% Excess Emissions = Total Duration of Excess Emissions/ Source Operating Time x 100

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 SO<sub>2</sub> lb/mmBtu 24-Hr

Emission Limitation: 0.7

Reporting Period Dates: From 7/01/2012 To 9/30/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/29/12

Total Source Operating Time in Reporting Period: 2047 hours

CEMS Performance Summary	Total CEMS Downtimes including exemptions	
	Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	0	0.00

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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<u>Jason M. Prentice</u>	<u>Jason M. Prentice</u>	<u>Env. Planner</u>	<u>10-30-12</u>
NAME	SIGNATURE	TITLE	DATE



## Continuous Emission Monitor Quarterly Report Summary

## Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 SO<sub>2</sub> lb/mmBtu 30-Day

Emission Limitation: 0.5

Reporting Period Dates: From 7/01/2012 To 9/30/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/29/12

Total Source Operating Time in Reporting Period: 2047 hours

## CEMS Performance Summary

Total CEMS Downtimes  
including exemptions

		%
	Duration	Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	0	0.00

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

## Emission Data Summary

		% Excess
	Duration	Emissions(2)
1. Duration of excess emissions in reporting period due to:		
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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Continuous Emission Monitor Quarterly Report Summary  
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 SO2 Reduction 30-Day

Emission Limitation: 90

Reporting Period Dates: From 7/01/2012 To 9/30/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/29/12

Total Source Operating Time in Reporting Period: 2047 hours

CEMS Performance Summary

Total CEMS Downtimes  
including exemptions

	Duration	%
		Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	0	0.00

Durations in hours

(1) % Unavailable is calculated by the following formula:

% Unavailable = CEMS Downtime during Source Operating Time/ Source Operating Time x 100

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

% Excess Emissions = Total Duration of Excess Emissions/ Source Operating Time x 100

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## Continuous Emission Monitor Quarterly Report Summary

## Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 CO lb/mmBtu 24-Hr

Emission Limitation: 0.3

Reporting Period Dates: From 7/01/2012 To 9/30/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/29/12

Total Source Operating Time in Reporting Period: 2047 hours

## CEMS Performance Summary

Total CEMS Downtimes  
including exemptions

	%	
	Duration	Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	0	0.00

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

## Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	23	1.12
2. Control Equip Problems	0	0.00
3. Process Problems	55	2.69
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	78	3.81

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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10-30-12

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## Continuous Emission Monitor Quarterly Report Summary

## Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 CO lb/hr 24-Hr

Emission Limitation: 115.2

Reporting Period Dates: From 7/01/2012 To 9/30/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/30/12

Total Source Operating Time in Reporting Period: 2047 hours

## CEMS Performance Summary

Total CEMS Downtimes  
including exemptions

		%
1. CEMS downtime in reporting period due to:	Duration	Unavailable (1)
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	3	0.15
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	3	0.15

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

## Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	23	1.12
2. Control Equip Problems	0	0.00
3. Process Problems	4	0.20
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	27	1.32

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

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10-30-12  
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## Downtime Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** Opacity

**Data in the Reporting Period: 07/01/12 to 09/30/12**

Incid. No.	Start Date	End Date	Duration Periods	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	08/27/12 11:18:43	08/27/12 11:47:33	5	15=Preventative Maintenance	3=Quality Assurance Calibrations	

**Total Downtime in the Reporting Period = 5 Periods , Data Availability for this Reporting Period = 99.98 %**

**Total Operating Time in the Reporting Period = 21737 Periods**

TESFiler0002258

## Downtime Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** NOx CEMS

**Data in the Reporting Period: 07/01/12 to 09/30/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

**Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%**

**Total Operating Time in the Reporting Period = 2175 hours**

TESFiler0002259

## Downtime Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** SO2 CEMS

**Data in the Reporting Period: 07/01/12 to 09/30/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	07/07/12 10:00:37	07/07/12 19:59:37	10	21=Blowback	3=Quality Assurance Calibrations	
2	07/11/12 05:00:37	07/11/12 07:59:36	3	11=Excess Drift Primary Analyzer	1=Monitor Equip Malfunctions	Checked out System and did an Auto Cal. Unit passed
3	07/14/12 05:00:39	07/14/12 22:59:42	18	11=Excess Drift Primary Analyzer	1=Monitor Equip Malfunctions	Replaced Pump on Analyzer and did a Complete

**Total Downtime in the Reporting Period = 31 hours , Data Availability for this Reporting Period = 98.57 %**

**Total Operating Time in the Reporting Period = 2175 hours**

TESFiler0002260

## Downtime Report

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** CO #/MMBTU CEMS

**Data in the Reporting Period: 07/01/12 to 09/30/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	07/14/12 21:00:37	07/14/12 22:59:42	2	21=Blowback	3=Quality Assurance Calibrations	

**Total Downtime in the Reporting Period = 2 hours , Data Availability for this Reporting Period = 99.91 %**

**Total Operating Time in the Reporting Period = 2175 hours**



## Downtime Report

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** CO #/HOUR CEMS

**Data in the Reporting Period: 07/01/12 to 09/30/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	07/07/12 09:00:37	07/07/12 09:59:37	1	98=Automatic Calibration	3=Quality Assurance Calibrations	
2	07/14/12 20:00:36	07/14/12 22:59:42	3	98=Automatic Calibration	3=Quality Assurance Calibrations	
3	08/27/12 11:00:38	08/27/12 11:59:38	1	98=Automatic Calibration	3=Quality Assurance Calibrations	

**Total Downtime in the Reporting Period = 5 hours , Data Availability for this Reporting Period = 99.77 %**

**Total Operating Time in the Reporting Period = 2175 hours**

## Downtime Report

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** CO2 Analyzer

**Data in the Reporting Period: 07/01/12 to 09/30/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

**Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%**

**Total Operating Time in the Reporting Period = 2175 hours**

## Downtime Report

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** Flow Analyzer

**Data in the Reporting Period: 07/01/12 to 09/30/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

**Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%**

**Total Operating Time in the Reporting Period = 2175 hours**

## Downtime Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** Inlet SO2 CEMS

**Data in the Reporting Period: 07/01/12 to 09/30/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	07/05/12 07:00:37	07/05/12 07:59:37	1	15=Preventative Maintenance	3=Quality Assurance Calibrations	

**Total Downtime in the Reporting Period = 1 hours , Data Availability for this Reporting Period = 99.95 %**

**Total Operating Time in the Reporting Period = 2175 hours**

## Downtime Report

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** Inlet CO2 Analyzer

**Data in the Reporting Period: 07/01/12 to 09/30/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	07/05/12 07:00:37	07/05/12 07:59:37	1	15=Preventative Maintenance	3=Quality Assurance Calibrations	

**Total Downtime in the Reporting Period = 1 hours , Data Availability for this Reporting Period = 99.95 %**

**Total Operating Time in the Reporting Period = 2175 hours**

## Downtime Report

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** Opacity

**Data in the Reporting Period: 07/01/12 to 09/30/12**

Incid. No.	Start Date	End Date	Duration Periods	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	08/27/12 11:48:37	08/27/12 12:05:39	3	15=Preventative Maintenance	3=Quality Assurance Calibrations	
2	08/27/12 12:12:37	08/27/12 13:05:33	9	15=Preventative Maintenance	3=Quality Assurance Calibrations	

**Total Downtime in the Reporting Period = 12 Periods , Data Availability for this Reporting Period = 99.94 %**

**Total Operating Time in the Reporting Period = 21818 Periods**

## Downtime Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** NOx CEMS

**Data in the Reporting Period: 07/01/12 to 09/30/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

**Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%**

**Total Operating Time in the Reporting Period = 2047 hours**

## Downtime Report

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** SO2 CEMS

**Data in the Reporting Period: 07/01/12 to 09/30/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

**Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%**

**Total Operating Time in the Reporting Period = 2047 hours**



## Downtime Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** CO #/MMBTU CEMS

**Data in the Reporting Period: 07/01/12 to 09/30/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

**Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%**

**Total Operating Time in the Reporting Period = 2047 hours**

## Downtime Report

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler2

**Parameter:** CO #/HOUR CEMS

**Data in the Reporting Period: 07/01/12 to 09/30/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	07/07/12 01:00:38	07/07/12 01:59:38	1	98=Automatic Calibration	3=Quality Assurance Calibrations	
2	08/28/12 04:00:40	08/28/12 05:59:40	2	98=Automatic Calibration	3=Quality Assurance Calibrations	

**Total Downtime in the Reporting Period = 3 hours , Data Availability for this Reporting Period = 99.85 %**

**Total Operating Time in the Reporting Period = 2047 hours**

## Downtime Report

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** CO2 Analyzer

**Data in the Reporting Period: 07/01/12 to 09/30/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

**Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%**

**Total Operating Time in the Reporting Period = 2047 hours**

## Downtime Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** Flow Analyzer

**Data in the Reporting Period: 07/01/12 to 09/30/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

**Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%**

**Total Operating Time in the Reporting Period = 2047 hours**

TESFiler0002273

## Downtime Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** Inlet SO2 CEMS

**Data in the Reporting Period: 07/01/12 to 09/30/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

**Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%**

**Total Operating Time in the Reporting Period = 2047 hours**

## Downtime Report

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** Inlet CO2 Analyzer

**Data in the Reporting Period: 07/01/12 to 09/30/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

**Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%**

**Total Operating Time in the Reporting Period = 2047 hours**

## Excess Emissions Report

**Facility Name:** T.E.S. Filer City Station**Location:** Filer City, MI**Source:** Boiler 1**Parameter:** Opacity**Limit:** 10**Data in the Reporting Period: 07/01/12 to 09/30/12**

Inc No.	Start Date	End Date	Duration Periods	Emission Reading	EPA Category	Reason for Incident	Corrective Action
1	07/03/12 04:00:35	07/03/12 04:05:35	1	16	Other Known Causes	Atomizer Tripped High Bearing Temp.	Swapped out Atomizer.
2	08/07/12 05:42:37	08/07/12 06:05:37	4	52	Other Known Causes	Atomizer electrical connection problem	Repaired electrical plug
3	08/07/12 08:36:39	08/07/12 08:41:39	1	11	Other Known Causes	Atomizer Power Plug Failure. Atomizer #1	Replaced Power Plug Unit.
4	09/20/12 01:54:38	09/20/12 01:59:38	1	41	Startup/Shutdown	Blown Tube on #2 Boiler	Fix Tube and Start up #2 Boiler

**Total Duration in the Reporting Period = 7 Periods , Percentage of Operating Time above Excess Emission Limit = 0.03 %****Total Operating Time in the Reporting Period = 21737 Periods**

## Excess Emissions Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** NOx lb/mmBtu 30-Day

**Limit:** 0.60

**Data in the Reporting Period: 07/01/12 to 09/30/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

**Total Duration in the Reporting Period = 0 hours**

**Total Operating Time in the Reporting Period = 2175 hours**

TESFiler0002277



## Excess Emissions Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** SO2 lb/mmBtu Daily Ave.

**Data in the Reporting Period: 07/01/12 to 09/30/12**

Inc No.	Start Date	End Date	Duration hours	Emission	Limit	EPA Category	Reason for Excess Emission	Corrective Action
								No Incidents found in this Reporting Period

**Total Duration in the Reporting Period = 0 hours**

**Total Operating Time in the Reporting Period = 2175 hours**

TESFiler0002278

## Excess Emissions Report

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** SO2 lb/mmBtu 30-Day

**Limit:** 0.5

**Data in the Reporting Period: 07/01/12 to 09/30/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

**Total Duration in the Reporting Period = 0 hours**

**Total Operating Time in the Reporting Period = 2175 hours**

## Excess Emissions Report

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** SO2 Reduction 30-Day

**Limit:** 90

**Data in the Reporting Period: 07/01/12 to 09/30/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

**Total Duration in the Reporting Period = 0 hours**

**Total Operating Time in the Reporting Period = 2175 hours**

## Excess Emissions Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boilers

**Parameter:** Total SO2 Tons

**Limit:** 6.45

**Data in the Reporting Period: 07/01/12 to 09/30/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

**Total Duration in the Reporting Period = 0 hours**

**Total Operating Time in the Reporting Period = 2183 hours**

TESFiler0002281

## Excess Emissions Report

**Facility Name:** T.E.S. Filer City Station**Location:** Filer City, MI**Source:** Boiler 1**Parameter:** CO lb/mmBtu 24-Hr Roll**Limit:** 0.3**Data in the Reporting Period: 07/01/12 to 09/30/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
1	07/04/12 14:00:37	07/05/12 21:59:38	32	1.0	1.4	Process Problems	Control Problems. Turbine Vibration and	Called in Tech for Vibration and AVR controls.
2	07/07/12 15:00:39	07/08/12 12:59:37	22	1.3	1.4	Startup/Shutdown	Startup following S/D for AVR Contol	Followed MMP Startup Procedures.
3	08/08/12 12:00:41	08/09/12 10:59:41	23	0.4	0.4	Process Problems	Turbine Trip, Possible Vibration Monitor	Checked out equipment and Started back up.

**Total Duration in the Reporting Period = 77 hours , Percentage of Operating Time above Excess Emission Limit = 3.54 %****Total Operating Time in the Reporting Period = 2175 hours**

## Excess Emissions Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** CO lb/hr 24-Hr Roll

**Limit:** 115.2

**Data in the Reporting Period: 07/01/12 to 09/30/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
1	07/05/12 21:00:38	07/05/12 23:59:39	3	129.9	135.8	Process Problems	Turbine Vibration and AVR control	Called in Tech to Repair Turbine Vibration and
2	07/07/12 09:00:37	07/08/12 00:59:38	16	143.3	151.8	Startup/Shutdown	Startup following S/D for AVR control	Followed MMP Startup Procedures.

**Total Duration in the Reporting Period = 19 hours , Percentage of Operating Time above Excess Emission Limit = 0.87 %**

**Total Operating Time in the Reporting Period = 2175 hours**

TESFiler0002283

# Excess Emissions Report

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** Opacity

**Limit:** 10

**Data in the Reporting Period: 07/01/12 to 09/30/12**

Inc No.	Start Date	End Date	Duration Periods	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
1	07/03/12 09:18:39	07/03/12 09:23:39	1	48	48	Other Known Causes	Atomizer Change out on #2 Boiler.	Installed Atomizer and Started Up System.
2	07/31/12 10:24:43	07/31/12 10:29:43	1	29	29	Other Known Causes	Atomizer Change out on #2 Boiler.	Replaced Atomizer and started up system.
3	08/07/12 10:24:39	08/07/12 10:29:39	1	33	33	Other Known Causes	Atomizer Change Out. High Temp Bypass.	Replaced #2 Atomizer.
4	08/25/12 18:36:40	08/25/12 19:35:38	10	73	89	Startup/Shutdown	Blown Tube on #2 Boiler Unit Down	Will Start Up after Tube is repaired.
5	09/04/12 09:18:38	09/04/12 09:23:38	1	13	13	Other Known Causes	Atomizer change out	Atomizer #2 changed out
6	09/20/12 01:06:43	09/20/12 01:29:37	4	15	16	Startup/Shutdown	Boiler #2 Blown Tube Unit Down	Repair Tube and Start up Boiler.

**Total Duration in the Reporting Period = 18 Periods , Percentage of Operating Time above Excess Emission Limit = 0.08 %**

**Total Operating Time in the Reporting Period = 21818 Periods**

## Excess Emissions Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** NOx lb/mmBtu 30-Day

**Limit:** 0.60

**Data in the Reporting Period: 07/01/12 to 09/30/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

**Total Duration in the Reporting Period = 0 hours**

**Total Operating Time in the Reporting Period = 2047 hours**

TESFiler0002285



## Excess Emissions Report

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** SO2 lb/mmBtu Daily Ave.

**Data in the Reporting Period: 07/01/12 to 09/30/12**

Inc No.	Start Date	End Date	Duration hours	Emission	Limit	EPA Category	Reason for Excess Emission	Corrective Action
								No Incidents found in this Reporting Period

**Total Duration in the Reporting Period = 0 hours**

**Total Operating Time in the Reporting Period = 2047 hours**

## Excess Emissions Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** SO2 lb/mmBtu 30-Day

**Limit:** 0.5

**Data in the Reporting Period: 07/01/12 to 09/30/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

**Total Duration in the Reporting Period = 0 hours**

**Total Operating Time in the Reporting Period = 2047 hours**

TESFiler0002287

## Excess Emissions Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** SO2 Reduction 30-Day

**Limit:** 90

**Data in the Reporting Period: 07/01/12 to 09/30/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

**Total Duration in the Reporting Period = 0 hours**

**Total Operating Time in the Reporting Period = 2047 hours**

TESFiler0002288

## Excess Emissions Report

**Facility Name:** T.E.S. Filer City Station**Location:** Filer City, MI**Source:** Boiler 2**Parameter:** CO lb/mmBtu 24-Hr Roll**Limit:** 0.3**Data in the Reporting Period: 07/01/12 to 09/30/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
1	07/04/12 14:00:43	07/05/12 21:59:40	32	1.1	1.9	Process Problems	Control Problems (Turbine Vibrations)	Called in Tech to repair.
2	07/07/12 08:00:43	07/07/12 09:59:38	2	2.0	2.0	Startup/Shutdown	AVR problems led to trips and shutdown	Called in Vendor for repairs to the AVR System.
3	07/07/12 11:00:41	07/08/12 07:59:37	21	1.7	2.1	Startup/Shutdown	Startup after AVR repairs, trip due to	Correted Vacuum Problems and Completed
4	08/08/12 12:00:36	08/09/12 10:59:39	23	0.4	0.4	Process Problems	Turbine Trip Possible Vibration Monitor	Checked out equipment and Started back up.

**Total Duration in the Reporting Period = 78 hours , Percentage of Operating Time above Excess Emission Limit = 3.81 %****Total Operating Time in the Reporting Period = 2047 hours**

## Excess Emissions Report

**Facility Name:** T.E.S. Filer City Station**Location:** Filer City, MI**Source:** Boiler 2**Parameter:** CO lb/hr 24-Hr Roll**Limit:** 115.2**Data in the Reporting Period: 07/01/12 to 09/30/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
1	07/05/12 20:00:42	07/05/12 23:59:40	4	152.9	167.4	Process Problems	Control Problems (Turbine Vibration)	Called in Tech to make repairs.
2	07/07/12 01:00:38	07/07/12 23:59:38	23	213.4	278.4	Startup/Shutdown	Startup after AVR repairs, trip due to	Corrected Vacuum Problems and completed

**Total Duration in the Reporting Period = 27 hours , Percentage of Operating Time above Excess Emission Limit = 1.32 %****Total Operating Time in the Reporting Period = 2047 hours**

# **T.E.S. Filer City Station**

Filer City, Michigan

3<sup>rd</sup> Quarter Opacity Results  
2012

Report Prepared on: 29 October 2012

RESULTS OF CALIBRATION ERROR TEST  
FEDERAL REGISTER PART 60 APPENDIX B  
PERFORMANCE SPECIFICATION 1  
CONTINUOUS EMISSION MONITORING SYSTEMS  
IN STATIONARY SOURCES

At

Units 1 and 2  
T.E.S.  
Filer City Generating Station  
Filer City, Michigan.

Section 1: Introduction

Section 2: Certification Sheet

Section 3: Summary of Results

Section 4: Calibration Error Test Results

Section 5: Data Acquisition Handling System Report

## INTRODUCTION

To comply with the Code of Federal Regulations Part 60, T.E.S. – Filer City Generating Station has retained the services of MSI/Mechanical Systems, Inc. to perform the Calibration Error Test on their Continuous Opacity Monitoring (COM) system on Unit 1 and 2. The Continuous Opacity Monitoring system is a Durag Model D-R 290 opacity monitor supplied and installed by MSI/Mechanical Systems, Inc.

The Calibration Error Test (CET) was completed on 27 August 2012 by an MSI technician. The CET was performed as described in the 40CFR60, Appendix B, Performance Specification 1

There are five sections to this report. Section 1 is an introduction page. Section 2 is a MSI/Mechanical Systems, Inc. certification statement. Section 3 is a summary of all test results. Section 4 has the quarterly calibration error test results. Section 5 contains the data acquisition handling system (DAHS) report. All system operating data has been supplied by the VIM Technologies Inc. data acquisition handling system (DAHS) or collected by MSI.





## CERTIFICATION SHEET

Having supervised and worked on T.E.S. – Filer City Generating Station test program described in this report, and having written this report, I hereby certify the data, information, and results of the third quarter 2012 to be accurate and true according to the methods and procedures used.

Data collected under the supervision of others, if included in this report, is presumed to have been gathered in accordance with recognized standards.

MSI/MECHANICAL SYSTEMS, INC.

Performed by:

  
James Fanning  
Field Service Technician

29 OCT. 2012  
Date

Reviewed by:

  
Roland Orzechowski  
Field Service Manager

29 OCT 2012  
Date

MECHANICAL SYSTEMS, INC.

480 Progress Way Sun Prairie, WI 53590 (608) 825-2055 Fax (608) 825-2295

TESFiler0002294

SUMMARY OF RESULTS  
FEDERAL REGISTER PART 60 APPENDIX B  
PERFORMANCE SPECIFICATION 1  
CONTINUOUS EMISSION MONITORING SYSTEMS  
IN STATIONARY SOURCES

Location: T.E.S.  
Filer City Generating Station  
Filer City, Michigan

Stack: Units 1 and 2

Instrument Manufacturer: Durag

Instrument Model: Model D-R 290

Instrument Serial Number: **Unit 1** - 425673  
**Unit 2** - 425674

Calibration Error Test: **Unit 1** Low - Range Allowed 3.0%, Actual: 0.33%  
Mid - Range Allowed 3.0%, Actual: 0.51%  
High - Range Allowed 3.0%, Actual: 0.58%

Calibration Error Test: **Unit 2** Low - Range Allowed 3.0%, Actual: 0.50%  
Mid - Range Allowed 3.0%, Actual: 0.37%  
High - Range Allowed 3.0%, Actual: 0.27%

Neutral Density Filter Serial Numbers: Low - VN49      Exp. Date - 12 March 2013  
Mid - VN50      Exp. Date - 12 March 2013  
High - VN51      Exp. Date - 12 March 2013

Certification of Neutral Density Filters performed by Opacity Certification Services, NC

Calibration Error Test was completed on 27 August 2012.

# **CALIBRATION ERROR TEST** **UNIT 1 OPACITY – QUARTERLY**

Person Conducting Test:		James Fanning		Analyzer Manufacturer:		Durag	
Company:		MSI/Mechanical Systems, Inc.		Model/Serial #:		D-R 290 / 425673	
Date:		27 August 2012		Location:		T.E.S.- Filer City, Michigan	
Monitor Pathlength, L <sub>1</sub> :		76 Inches		Emission Outlet Pathlength, L <sub>2</sub> :		76 Inches	
Monitoring System Output Path Length Corrected?		Yes:		No:		X	
				Taper Ratio:		1.00	

Actual Neutral: Density      Opacity %:			Path Adjusted: Density      Opacity %		
Low Range:	0.08	16.60%	Low Range:	0.08	16.60%
Mid Range:	0.12	24.70%	Mid Range:	0.12	24.70%
High Range:	0.26	45.70%	High Range:	0.26	45.70%

Run Number	Calibration Filter Value (Path Adjusted Percent Opacity)	Instrument Reading (Opacity), percent	Arithmetic Difference (opacity) percent		
			Low	Mid	High
1-Low	16.60%	16.94%	-0.34%		
2-Mid	24.70%	25.30%		-0.60%	
3-High	45.70%	46.28%			-0.58%
4-Low	16.60%	16.86%	-0.26%		
5-Mid	24.70%	24.97%		-0.27%	
6-High	45.70%	46.25%			-0.55%
7-Low	16.60%	16.82%	-0.22%		
8-Mid	24.70%	24.88%		-0.18%	
9-High	45.70%	46.17%			-0.47%
10-Low	16.60%	16.73%	-0.13%		
11-Mid	24.70%	24.88%		-0.18%	
12-High	45.70%	46.16%			-0.46%
13-Low	16.60%	16.76%	-0.16%		
14-Mid	24.70%	24.81%		-0.11%	
15-High	45.70%	46.11%			-0.41%
Arithmetic Mean      (Equation 1-2)    X Confidence Coefficient (Equation 1-4)    CC Calibration Error                              X + CC			X	X	X
			0.22	0.27	0.49
			0.10	0.24	0.09
			0.33%	0.51%	0.58%

## CALIBRATION ERROR TEST UNIT 2 OPACITY – QUARTERLY

Person Conducting Test:		James Fanning		Analyzer Manufacturer:		Durag	
Company:		MSI/Mechanical Systems, Inc.		Model/Serial #:		D-R 290 / 425674	
Date:		27 August 2012		Location:		T.E.S.- Filer City, Michigan	
Monitor Pathlength, L <sub>1</sub> :		76 Inches		Emission Outlet Pathlength, L <sub>2</sub> :		76 Inches	
Monitoring System Output Path Length Corrected?		Yes:		No:		X	
				Taper Ratio:		1.00	

Actual Neutral: Density    Opacity %:			Path Adjusted: Density    Opacity %		
Low Range:	0.08	16.60%	Low Range:	0.08	16.60%
Mid Range:	0.12	24.70%	Mid Range:	0.12	24.70%
High Range:	0.26	45.70%	High Range:	0.26	45.70%

Run Number	Calibration Filter Value (Path Adjusted Percent Opacity)	Instrument Reading (Opacity), percent	Arithmetic Difference (opacity) percent		
			Low	Mid	High
1-Low	16.60%	17.14%	-0.54%		
2-Mid	24.70%	25.02%		-0.32%	
3-High	45.70%	45.97%			-0.27%
4-Low	16.60%	16.96%	-0.36%		
5-Mid	24.70%	24.98%		-0.28%	
6-High	45.70%	45.94%			-0.24%
7-Low	16.60%	16.94%	-0.34%		
8-Mid	24.70%	25.09%		-0.39%	
9-High	45.70%	45.89%			-0.19%
10-Low	16.60%	16.96%	-0.36%		
11-Mid	24.70%	24.96%		-0.26%	
12-High	45.70%	45.94%			-0.24%
13-Low	16.60%	16.89%	-0.29%		
14-Mid	24.70%	24.99%		-0.29%	
15-High	45.70%	45.90%			-0.20%

Arithmetic Mean    (Equation 1-2)    X Confidence Coefficient (Equation 1-4)    CC Calibration Error                            X + CC			 0.38 0.12 0.50%	 0.31 0.06 0.37%	 0.23 0.04 0.27%
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**OPACITY CERTIFICATION SERVICES, LLC**

*A Proud Veteran-Owned Business*

8600 Harbor Drive Raleigh, NC 27615-4527 USA

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E-mail: [asiffer@opacitycert.com](mailto:asiffer@opacitycert.com)

Web: [www.opacitycert.com](http://www.opacitycert.com)

## Results of NIST-Traceable Opacity Filter Certification

Certification Document Number: **031312-03**

Filter Owner/Operator:	<b>T.E.S. Filer City Station L.P.</b>
Unit/Boiler/Filter Set I.D. (If applicable):	<b>n/a</b>

Date of Certification	Date of Expiration*
<b>March 13, 2012</b>	<b>March 12, 2013</b>

*\* If the below filters are used for an initial monitor certification test (PS-1 testing), they must be certified within 6 months of the PS-1 test.*

### Monitor Information

Specific Opacity Monitor:	<b>Durag D-R290 series</b>		
Straight Stack PLCF:	<b>1.000</b>	Stack Taper PLCF (if applicable)	n/a
Angle of Incidence	Light Source		Peak Spectral Response
<b>10 degrees</b>	<b>L.E.D.</b>		<b>Multi-Point</b> ■ ■ ■
Maximum Accuracy	Laboratory Temperature		
<b>± 0.5 Absolute Opacity</b>	<b>72° Fahrenheit (± 3°)</b>		<b>22° Celsius (± 1°)</b>

Filter Data	Low Filter	Mid Filter	High Filter
Serial Number:	<b>VN49</b>	<b>VN50</b>	<b>VN51</b>
New Opacity Value:	<b>16.5%</b>	<b>24.7%</b>	<b>45.6%</b>
New Transmittance Value:	<b>83.5%</b>	<b>75.3%</b>	<b>54.4%</b>
New Optical Density:	<b>0.0785</b>	<b>0.1231</b>	<b>0.2645</b>
Previous Opacity Value:	16.6%	24.7%	45.7%
Change in Opacity:	<b>(0.1)</b>	<b>0.0</b>	<b>(0.1)</b>

An electronic copy of this document is available, in PDF format. To request a copy, please e-mail [asiffer@opacitycert.com](mailto:asiffer@opacitycert.com) and we will send your copy as soon as possible.

Signature of Calibration Technician

# Opacity Data Summary Report

Facility Name: T.E.S. Filer City Station  
Source: Boiler 1 Opacity

Location: Filer City, MI

Date/Time	10-Second Opacity Readings (%)						Calculated Average (%)	DAS 1-Min Average		Absolute Value of Difference
	# 1	# 2	# 3	# 4	# 5	# 6		(%)	MC	
08/27/12 11:15:42	2.56	2.56	2.71	2.53	2.61	2.71	2.61	2.61	0	0.00
08/27/12 11:16:37	3.21	4.96	3.46	2.65	2.61	2.56	3.24	3.24	0	0.00
08/27/12 11:17:33	2.59	2.71	2.63	2.56	2.56	2.59	2.61	2.61	0	0.00
08/27/12 11:18:34	2.53	2.53	2.58	2.59	2.53	2.56	2.55	2.55	15	0.00
08/27/12 11:19:36	2.37	2.22	0.06	-0.03	33.69	44.99	13.88	13.88	15	0.00
08/27/12 11:20:38	23.34	2.53	0.73	-0.12	-0.12	-0.12	4.37	4.37	15	0.00
08/27/12 11:21:33	16.94	16.94	16.91	16.94	16.93	16.94	16.93	16.93	15	0.00
08/27/12 11:22:34	16.94	16.94	16.94	16.91	18.66	25.06	18.58	18.57	15	0.01
08/27/12 11:23:43	25.07	25.05	25.03	18.32	37.36	46.30	29.52	29.52	15	0.00
08/27/12 11:24:38	46.28	46.26	46.28	41.44	16.86	16.86	35.66	35.66	15	0.00
08/27/12 11:25:34	16.86	16.86	16.85	15.79	16.57	25.00	17.99	17.99	15	0.00
08/27/12 11:26:35	25.00	25.00	24.97	14.17	46.24	46.25	30.27	30.27	15	0.00
08/27/12 11:27:38	46.21	46.25	46.24	30.59	16.82	16.82	33.82	33.82	15	0.00
08/27/12 11:28:33	16.81	16.82	16.82	12.52	24.89	24.90	18.79	18.79	15	0.00
08/27/12 11:29:35	24.85	24.88	24.90	17.09	46.21	46.18	30.69	30.68	15	0.01
08/27/12 11:30:43	46.18	46.17	46.15	37.76	16.76	16.76	34.96	34.96	15	0.00
08/27/12 11:31:38	16.76	16.73	16.76	13.82	24.91	24.88	18.98	18.98	15	0.00
08/27/12 11:32:33	24.88	24.88	24.88	17.04	46.16	46.19	30.67	30.67	15	0.00
08/27/12 11:33:34	46.16	46.16	46.16	26.16	16.77	16.73	33.02	33.02	15	0.00
08/27/12 11:34:36	16.74	16.76	16.74	10.86	24.84	24.84	18.46	18.46	15	0.00
08/27/12 11:35:38	24.81	24.81	24.81	17.36	46.15	46.14	30.68	30.68	15	0.00
08/27/12 11:36:34	46.16	46.11	46.13	44.01	-0.34	-0.34	30.29	30.29	15	0.00
08/27/12 11:37:36	-0.34	-0.34	-0.34	-0.31	2.26	2.06	0.50	0.50	15	0.00
08/27/12 11:38:37	1.96	2.00	1.94	1.97	2.06	1.90	1.97	1.97	15	0.00
08/27/12 11:39:39	1.94	1.90	2.34	2.06	2.03	2.18	2.08	2.08	15	0.00

## MC - Monitoring Codes:

00 - System OK; Data is Valid

10 - Heavy Rains

11 - Excess Drift Primary Analyzer

12 - Excess Drift Ancillary Analyzer

13 - Process Down

14 - Recalibration

15 - Preventive Maintenance

16 - Primary Analyzer Malfunction

17 - Ancillary Analyzer Malfunction

18 - Data Handling System Malfunction

19 - Sample Interface Malfunction

20 - Corrective Maintenance

21 - Analyzer in Audit mode

98 - Automatic Calibration

99 - Software Adjust

# Opacity Data Summary Report

Facility Name: T.E.S. Filer City Station  
Source: Boiler 2 Opacity

Location: Filer City, MI

Date/Time	10-Second Opacity Readings (%)						Calculated Average (%)	DAS 1-Min Average		Absolute Value of Difference
	# 1	# 2	# 3	# 4	# 5	# 6		(%)	MC	
08/27/12 11:50:38	0.57	0.72	0.31	-0.05	0.06	0.07	0.28	0.28	15	0.00
08/27/12 11:51:34	0.04	0.41	34.23	28.62	0.59	0.69	10.76	10.76	15	0.00
08/27/12 11:52:41	0.01	0.00	5.38	17.13	17.14	17.14	9.47	9.47	15	0.00
08/27/12 11:53:37	17.14	17.14	17.14	17.14	17.13	17.14	17.14	17.14	15	0.00
08/27/12 11:54:39	17.14	17.11	20.01	25.05	25.05	25.02	21.56	21.56	15	0.00
08/27/12 11:55:39	25.02	24.99	22.55	45.96	45.97	45.96	35.08	35.07	15	0.01
08/27/12 11:56:37	45.97	45.93	31.02	16.96	16.96	16.96	28.97	28.97	15	0.00
08/27/12 11:57:38	16.96	16.92	9.36	24.99	24.99	25.03	19.71	19.71	15	0.00
08/27/12 11:58:39	24.98	24.99	31.44	45.96	45.97	45.96	36.55	36.55	15	0.00
08/27/12 11:59:42	45.94	45.96	23.05	16.95	16.96	16.96	27.64	27.64	15	0.00
08/27/12 12:00:38	16.94	16.96	16.08	25.12	25.12	25.12	20.89	20.89	15	0.00
08/27/12 12:01:38	25.09	25.08	19.30	45.93	45.91	45.91	34.54	34.54	15	0.00
08/27/12 12:02:41	45.89	45.91	32.35	16.96	16.96	16.96	29.17	29.17	15	0.00
08/27/12 12:03:36	16.96	16.96	14.45	24.98	25.00	24.96	20.55	20.55	15	0.00
08/27/12 12:04:32	24.96	24.96	24.99	45.97	45.97	45.97	35.47	35.47	15	0.00
08/27/12 12:05:39	45.94	45.94	16.34	16.92	16.90	16.92	26.49	26.49	15	0.00
08/27/12 12:06:35	16.89	16.89	15.17	24.99	24.99	24.99	20.65	20.65	15	0.00
08/27/12 12:07:37	24.99	24.99	26.60	45.94	45.92	45.89	35.72	35.72	15	0.00
08/27/12 12:08:39	45.90	45.90	34.44	-0.05	-0.06	-0.06	21.01	21.01	15	0.00
08/27/12 12:09:42	-0.08	-0.04	-0.05	0.69	0.56	0.57	0.28	0.27	15	0.01
08/27/12 12:10:37	0.57	0.56	0.69	0.73	0.73	0.13	0.57	0.57	98	0.00

## MC - Monitoring Codes:

00 - System OK; Data is Valid

10 - Heavy Rains

11 - Excess Drift Primary Analyzer

12 - Excess Drift Ancillary Analyzer

13 - Process Down

14 - Recalibration

15 - Preventive Maintenance

16 - Primary Analyzer Malfunction

17 - Ancillary Analyzer Malfunction

18 - Data Handling System Malfunction

19 - Sample Interface Malfunction

20 - Corrective Maintenance

21 - Analyzer in Audit mode

98 - Automatic Calibration

99 - Software Adjust



A CMS Energy Company

Environmental Services

January 28, 2013

Mr. Shane Nixon  
Michigan Department of Environmental Quality  
Air Quality Division  
120 W. Chapin Street  
Cadillac, MI 49601-2158

**SUBJECT: FOURTH QUARTER 2012 EMISSIONS MONITORING REPORT**

Dear Mr. Nixon:

Enclosed is the Fourth Quarter 2012 emissions monitoring report for Boilers No. 1 and No. 2 at the T.E.S. Filer City Station (Renewable Operating Permit No. ROP MI-ROP-N1685-2008b). The report includes all information required under Federal Standards of Performance for New Stationary Sources (40 CFR 60, Subparts A, Da, and Appendix F).

This quarterly report contains the Excess Emissions Reports (EERs) and Summary Reports for Boilers No. 1 and No. 2. The report also includes the results of linearity tests conducted in accordance with 40 CFR Part 75, Appendices A and B (all outlet CEMS other than CO), and cylinder gas audits (CGAs) conducted in accordance with 40 CFR Part 60, Appendix F (inlet CEMS and outlet CO CEMS). The associated Certificates of Analysis for the calibration gases used in the linearity tests and CGAs are also included within this quarterly report.

In accordance with Section 4.7.2 of the C/D Waste Wood Monitoring Plan dated September 20, 2012, a quarterly report detailing the quantities and sampling results for C/D wood waste will only be submitted if such materials are received within the calendar quarter. No such materials were received during the 4<sup>th</sup> quarter 2012 (or any of the previous quarters during 2012), so this quarterly report does not contain any information on C/D waste wood shipments.

It should be noted that the enclosed excess emissions report for the Unit 1 CO emission limit of 115.2 lbs/hr differs slightly from the Rule 912 Written Report submitted on October 23, 2012. These differences relate to the duration of the event (19 hrs vs. the previously reported 18 hrs) and the average/maximum emission rates (Ave/Max = 147.2 lbs/hr and 160.7 lbs/hr vs. the previously reported 146.6 lbs/hr and 155.5 lbs/hr). When investigating these slight discrepancies, it has been determined that the Rule 912 Written Report was based on treating the data for 10/17/2012, Hour 19:00 as valid (the CO emission rate was 0.0 lb/hr), but this hour was actually associated with missing data due to calibrations leaving too little 1-minute data for a valid hourly average. The enclosed data reflects the correct event duration and average/maximum emission rates.

Lastly, Mr. Richard Brown signed a few of the linearity/cylinder gas audit (CGA) forms even though these tests were actually conducted by Mr. Andy Knudsen. A few of the linearity/CGA forms were created after Mr. Knudsen left the employment of TES Filer City Station, so it was not possible for Mr. Knudsen to sign the forms even though he conducted the tests.



Please contact me at (517) 788-1467 or Mr. Richard Brown of TES Filer City Station at (231) 723-6573, Extension 103, if you have any questions or require further information concerning the contents of this quarterly report.

Sincerely,



Jason Prentice  
Environmental Planner  
Consumers Energy Company

cc: Richard Brown, TES Filer City Station  
Karen Kajiya-Mills, MDEQ-AQD  
Filer City Compliance File-Q, SA, A File



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
AIR QUALITY DIVISION

**RENEWABLE OPERATING PERMIT  
REPORT CERTIFICATION**

*Authorized by 1994 P.A. 451, as amended. Failure to provide this information may result in civil and/or criminal penalties.*

Reports submitted pursuant to R 336.1213 (Rule 213), subrules (3)(c) and/or (4)(c), of Michigan's Renewable Operating Permit (ROP) program must be certified by a responsible official. Additional information regarding the reports and documentation listed below must be kept on file for at least 5 years, as specified in Rule 213(3)(b)(ii), and be made available to the Department of Environmental Quality, Air Quality Division upon request.

Source Name T.E.S. Filer City Station County Manistee

Source Address P.O. Box 12 / 700 Mee Street City Filer City

AQD Source ID (SRN) N1685 ROP No. MI-ROP-N1685-2008b ROP Section No. N/A

Please check the appropriate box(es):

☐ **Annual Compliance Certification (Pursuant to Rule 213(4)(c))**

Reporting period (provide inclusive dates): From \_\_\_\_\_ To \_\_\_\_\_

- ☐ 1. During the entire reporting period, this source was in compliance with **ALL** terms and conditions contained in the ROP, each term and condition of which is identified and included by this reference. The method(s) used to determine compliance is/are the method(s) specified in the ROP.
- ☐ 2. During the entire reporting period this source was in compliance with all terms and conditions contained in the ROP, each term and condition of which is identified and included by this reference, **EXCEPT** for the deviations identified on the enclosed deviation report(s). The method used to determine compliance for each term and condition is the method specified in the ROP, unless otherwise indicated and described on the enclosed deviation report(s).

☐ **Semi-Annual (or More Frequent) Report Certification (Pursuant to Rule 213(3)(c))**

Reporting period (provide inclusive dates): From \_\_\_\_\_ To \_\_\_\_\_

- ☐ 1. During the entire reporting period, **ALL** monitoring and associated recordkeeping requirements in the ROP were met and no deviations from these requirements or any other terms or conditions occurred.
- ☐ 2. During the entire reporting period, all monitoring and associated recordkeeping requirements in the ROP were met and no deviations from these requirements or any other terms or conditions occurred, **EXCEPT** for the deviations identified on the enclosed deviation report(s).

☒ **Other Report Certification**

Reporting period (provide inclusive dates): From 10/01/2012 To 12/31/2012

Additional monitoring reports or other applicable documents required by the ROP are attached as described:

Boilers 1 and 2 Quarterly Report for the 4<sup>th</sup> Quarter of 2012 (October – December).

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this report and the supporting enclosures are true, accurate and complete

Henry M. Hoffman

General Manager

231-723-6573

Name of Responsible Official (print or type)

Title

Phone Number

Henry M. Hoffman  
Signature of Responsible Official

1-25-2013  
Date



# T.E.S. FILER CITY STATION

## II. CONTINUOUS MONITOR OPERATIONAL DATA

	# 1 OPACITY	# 2 OPACITY	INLET #1 SO2	INLET #2 SO2	STACK #1 SO2	STACK #2 SO2	STACK #1 NOx	STACK #2 NOx	STACK #1 CO	STACK #2 CO	INLET # 1 CO2	INLET # 2 CO2	STACK # 1 CO2	STACK # 2 CO2
1. MFG:	Durag, Inc.	Durag, Inc.	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>	T. E. I. <sup>1</sup>
2. MODEL NO:	D-R 290	D-R 290	43i	43i	43i	43i	42i	42i	48i	48i	410i	410i	410i	410i
3. SERIAL NO:	425692	425693	0622717879	0622717883	0622717877	0622717880	0623017966	0623017967	0622717887	0622717888	0622717873	0622717875	0622717869	0622717874
4. Basis for Gas Measurement (wet or dry)	N / A	N / A	WET	WET	WET	WET	WET	WET	WET	WET	WET	WET	WET	WET
5. F-Factor Used	N / A	N / A	F <sub>c</sub> ≈ 1,800 scf/mm Btu	F <sub>c</sub> ≈ 1,800 scf/mm Btu	F <sub>c</sub> ≈ 1,800 scf/mm Btu	F <sub>c</sub> ≈ 1,800 scf/mm Btu	F <sub>c</sub> ≈ 1,800 scf/mm Btu	F <sub>c</sub> ≈ 1,800 scf/mm Btu	F <sub>c</sub> ≈ 1,800 scf/mm Btu	F <sub>c</sub> ≈ 1,800 scf/mm Btu	N / A	N / A	N / A	N / A

<sup>1</sup> T. E. I. standards for Thermo Environmental Instruments, Inc.

6. F-Factor Method: Fuel Analyses and Method 19, Equation 19-15 and/or Method 19, Table 19-2. Please note that the fuel factors are unit specific and are based upon the relative amounts (on a heat input basis) of coal, wood, petroleum coke and tire-derived-fuel (TDF) that are fired within a given time period.

7. Ave. Time	6 Minute	6 Minute	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour
--------------	----------	----------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

8. Zero/Span  
Values

ZERO	0 %	0 %	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 %	0 %	0 %	0 %
SPAN	45 %	45 %	2,000 PPM	2,000 PPM	H: 1,500 PPM <sup>1</sup> L: 200 PPM <sup>1</sup>	H: 1,500 PPM <sup>1</sup> L: 200 PPM <sup>1</sup>	500 PPM	500 PPM	H: 3,000 PPM <sup>2</sup> L: 300 PPM <sup>2</sup>	H: 3,000 PPM <sup>2</sup> L: 300 PPM <sup>2</sup>	20.0 %	20.0 %	20.0 %	20.0 %

<sup>1</sup> The span values for the SO<sub>2</sub> Stack CEMS were revised from 2,000 ppm for the high span and 500 ppm for the low span just prior to the September 2008 Part 75 certification tests. The revised high and low span values were determined in accordance with sections 2.1.1.3 and 2.1.1.4 of Appendix A to 40 CFR Part 75.

<sup>2</sup> The historic span value for each of the CO Stack CEMS was 500 ppm (with a full scale of 2,050 ppm). In May of 2012, the plant implemented dual ranges for each CO CEMS, with a low range span value of 300 ppm and a high range span value of 3,000 ppm.

## T.E.S. FILER CITY STATION

### II. CONTINUOUS MONITOR OPERATIONAL DATA

	Monitoring System	RATA	7-Day Calibration Drift Test	Cycle-time Test	COMS Field Audit Test	COMS 168-hr Operational Test
9. Date of Last Performance Specification Test Passed	Boiler 1 Gas CEMS	08/28/2012	10/31/2006 (Stk SO <sub>2</sub> = 09/25/08)	10/18/2006 (Stk SO <sub>2</sub> = 10/03/08)	N/A	N/A
	Boiler 1 COMS	N/A	N/A	N/A	08/27/2012	10/26/2006
	Boiler 2 Gas CEMS	08/29/2012	10/31/2006 (Stk SO <sub>2</sub> = 09/25/08)	10/23/2006 (Stk SO <sub>2</sub> = 10/03/08)	N/A	N/A
	Boiler 2 COMS	N/A	N/A	N/A	08/27/2012	11/01/2006

	# 1 OPACITY	# 2 OPACITY	INLET #1 SO2	INLET #2 SO2	STACK #1 SO2	STACK #2 SO2	STACK #1 NOx	STACK #2 NOx	STACK #1 CO	STACK #2 CO	INLET # 2 CO2	INLET # 2 CO2	STACK #1 CO2	STACK # 2 CO2
10. Modification Since Last PST Date (10-06; 9-08)	NONE	NONE	NONE	NONE	NONE (Changed high & low span vals in 2008)	NONE (Changed high & low span vals in 2008)	NONE	NONE	NONE (Went to dual range as of 5-2012)	NONE (Went to dual range as of 5-2012)	NONE	NONE	NONE	NONE

	10 % (6-Min)	10 % (6-Min)	N / A	N / A	0.7 lb/mm Btu (24-Hr) 0.5 lb/mm Btu (30-Day)	0.7 lb/mm Btu (24-Hr) 0.5 lb/mm Btu (30-Day)	0.6 lb/mm Btu (30-Day)	0.6 lb/mm Btu (30-Day)	0.3 lb/mm Btu (24-Hour)	0.3 lb/mm Btu (24-Hour)	N / A	N / A	N / A	N / A
11. Emission Limits (Averaging Period)														

**T.E.S. FILER CITY STATION****III. MONITORING AND COMPLIANCE SUMMARY (per 40 CFR 60.51a(h))**

	<u>YES</u>	<u>NO</u>	<u>REF.</u>
1. Were the required continuous monitoring systems calibrated, span, and drift checks or other periodic audits performed as specified?	<u>X</u>	<u>          </u>	<u>          </u>
2. Were the data used to show compliance obtained in accordance with approved methods and procedures of Subpart Da?	<u>X</u>	<u>          </u>	<u>          </u>
3. Are the data representative of plant performance?	<u>X</u>	<u>          </u>	<u>          </u>
4. Were the minimum data requirements met? If no, were they not met due to unavoidable errors?	<u>X</u>	<u>          </u>	<u>          </u>
5. Was compliance with the standards achieved during the reporting period?	<u>          </u>	<u>X</u>	<u>          </u>

**Boiler #1**

SO <sub>2</sub> Stack Limit 0.7 lb/MMBTU 24 Hour	<u>          </u>	<u>X</u>	<u>          </u>
SO <sub>2</sub> Stack Limit 0.5 lb/MMBTU 30 Day	<u>X</u>	<u>          </u>	<u>          </u>
SO <sub>2</sub> 90% Reduction 30 Day	<u>X</u>	<u>          </u>	<u>          </u>
NO <sub>x</sub> Stack Limit 0.6 lb/MMBTU 30 Day	<u>X</u>	<u>          </u>	<u>          </u>
Opacity Limit >10% 6 Minute Average	<u>          </u>	<u>X</u>	<u>          </u>

**Boiler #2**

SO <sub>2</sub> Stack Limit 0.7 lb/MMBTU 24 Hour	<u>X</u>	<u>          </u>	<u>          </u>
SO <sub>2</sub> Stack Limit 0.5 lb/MMBTU 30 Day	<u>X</u>	<u>          </u>	<u>          </u>
SO <sub>2</sub> 90% Reduction 30 Day	<u>X</u>	<u>          </u>	<u>          </u>
NO <sub>x</sub> Stack Limit 0.6 lb/MMBTU 30 Day	<u>X</u>	<u>          </u>	<u>          </u>
Opacity Limit >10% 6 Minute Average	<u>          </u>	<u>X</u>	<u>          </u>

**T.E.S. FILER CITY STATION****V. EXCESS EMISSION REPORT - SO<sub>2</sub> AND NO<sub>x</sub>****SO<sub>2</sub> EVENTS (30 Day Rolling Average Limit of 0.5 lb/MMBTU)**

Date(s) Occurred	Boiler No.	Value (lb/mm Btu)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

**SO<sub>2</sub> EVENTS (24 Hour Average Limit of 0.7 lb/MMBTU)**

Date(s) Occurred	Boiler No.	Value (lb/mm Btu)	Cause	Corrective Action
10/17/12 (5 Op Hrs)	1	1.8	Boiler startup (SU) following a routine maintenance outage; SO <sub>2</sub> dry scrubber had to be bypassed to pre-warm the baghouse & maintain the required minimum inlet temperature.	Followed the Maintenance Management Plan (MMP); boiler & baghouse were brought up to full operating temp. as quickly as possible; scrubber was placed into service per manufacturer recommendations.
None	2	N / A	N / A	N / A

**SO<sub>2</sub> EVENTS (30 Day Rolling Average Limit of SO<sub>2</sub> Percent Reduction: Limit=90%)**

Date(s) Occurred	Boiler No.	Value (% removal)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

**NO<sub>x</sub> EVENTS (30 Day Rolling Average Limit of 0.60 lb/MMBTU)**

Date(s) Occurred	Boiler No.	Value (lb/mm Btu)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

**T.E.S. FILER CITY STATION****OPACITY EVENTS (Excess Emission Notification >10%, 6-Min. Average, for  $\geq 2$  Hours)**

Date(s) Occurred	Boiler No.	Value (% opacity)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

NOTE: All six minute periods during which the average opacity exceeds 10% are identified in the attached monthly "Excess Emissions Report" for Boiler #1 and Boiler #2.



**T.E.S. FILER CITY STATION****VI. QUALITY ASSURANCE DATA****1a. OUT-OF-CONTROL ASSESSMENT INFORMATION****BOILER # 1****INLET CO<sub>2</sub> METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717873	None	N / A	N / A

**STACK CO<sub>2</sub> METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717869	None	N / A	N / A

**INLET SO<sub>2</sub> METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717879	None	N / A	N / A

**STACK SO<sub>2</sub> METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717877	10/09/2012; Hrs 05:00 – 12:00 (8 hrs)	SO <sub>2</sub> analyzer had locked up, causing a failed calibration error test.	Restarted the SO <sub>2</sub> analyzer and then ran a passing calibration error test.

**T.E.S. FILER CITY STATION****STACK NO<sub>x</sub> METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 42i – 0623017966	None	N / A	N / A

**OPACITY METER**

Meter	Date(s) Occurred	Description	Corrective Action
D-R 290 – 425692	None	N / A	N / A

2a. Other operating days for which data has not been obtained (18 hrs) or excluded from calculation of average emission rates:

Boiler #1

Date(s) Occurred	Description	Corrective Action
10/09/2012 (SO <sub>2</sub> Only)	Per Section 1a, the SO <sub>2</sub> analyzer failed the calibration error because the analyzer had locked up.	Per Section 1a, the SO <sub>2</sub> analyzer was restarted and a passing calibration error test was then completed.

**3a. OUT-OF-CONTROL ASSESSMENT INFORMATION**

Any Boiler 1 CEMS and COMS out-of-control (OOC) periods are generally associated with equipment replacements or excessive calibration drift (CD) error, and they are summarized in Section VI.1a of this report. During this quarter, there were no OOC periods associated with Relative Accuracy Test Audits (RATAs), Cylinder Gas Audits (CGAs) or Linearity Tests.

When applicable, the duration of each OOC period or other periods of downtime are summarized in the quarterly report document titled “Downtime Report”. The information provided in Section VI.1a of this report provides a summary of the OOC period corrective actions. When required, the corrective actions result in the CDs (or relative accuracies) being within the allowed limits.

**T.E.S. FILER CITY STATION****1b. OUT-OF-CONTROL ASSESSMENT INFORMATION****BOILER # 2****INLET CO<sub>2</sub> METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717875	None	N / A	N / A

**STACK CO<sub>2</sub> METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717874	10/15/2012; Hrs 08:00 – 10:00 (3 hrs)	A manually initiated calibration error test sequence was aborted when it was apparent that the CO <sub>2</sub> analyzer was malfunctioning.	Replaced the IR source and pre- amp board in the CO <sub>2</sub> analyzer and then ran a passing calibration error test sequence.

**INLET SO<sub>2</sub> METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717883	None	N / A	N / A

**STACK SO<sub>2</sub> METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717880	10/15/2012; Hrs 09:00 – 10:00 (2 hrs)	A manually initiated calibration error test sequence was aborted.	Repairs to the CO <sub>2</sub> analyzer were completed and a passing calibration error test sequence was then run.

**T.E.S. FILER CITY STATION****STACK NO<sub>x</sub> METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 42i – 0623017967	10/15/2012; Hrs 09:00 – 10:00 (2 hrs)	A manually initiated calibration error test sequence was aborted.	Repairs to the CO <sub>2</sub> analyzer were completed and a passing calibration error test sequence was then run.

**OPACITY METER**

Meter	Date(s) Occurred	Description	Corrective Action
D-R 290 – 425693	None	N / A	N / A

2b. Other operating days for which data has not been obtained (18 hrs) or excluded from calculation of average emission rates:

Boiler #2

Date(s) Occurred	Description	Corrective Action
None	N / A	N / A

**3b. OUT-OF-CONTROL ASSESSMENT INFORMATION**

Any Boiler 2 CEMS and COMS out-of-control (OOC) periods are generally associated with equipment replacements or excessive calibration drift (CD) error, and they are summarized in Section VI.1a of this report. During this quarter, there were no OOC periods associated with Relative Accuracy Test Audits (RATAs), Cylinder Gas Audits (CGAs), Linearity Tests or CD Error Tests.

When applicable, the duration of each OOC period or other periods of downtime are summarized in the quarterly report document titled “Downtime Report”. The information provided in Section VI.1b of this report provides a summary of the OOC period corrective actions. When required, the corrective actions result in the CDs (or relative accuracies) being within the allowed limits.

## T.E.S. FILER CITY STATION

4. Full Scale Exceedance: Identification of times when pollutant concentration exceeds full span of the continuous monitoring system.

Date(s) Occurred	Boiler No.	Description	Corrective Action
None	1	N / A	N / A
None	2	N / A	N / A

# TES FILER CITY STATION AIR EMISSION SUMMARY

OCTOBER 2012

	OPACITY			SULFUR DIOXIDE									NITROGEN OXIDES		
	<6 MINUTE AVE OF 10 %			<24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			<30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			>90% SO2 REDUCTION LIMIT 30 DAY AVE			<30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
MONTH	43014 /	43026	99.97%	671.0 /	676.0	99.26%	676.0 /	676.0	100.00%	676.0 /	676.0	100.00%	676.0 /	676.0	100.00%
YTD			99.97%			99.58%			100.00%			100.00%			100.00%
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
MONTH	39114 /	39120	99.98%	564.0 /	564.0	100.00%	564.0 /	564.0	100.00%	564.0 /	564.0	100.00%	564.0 /	564.0	100.00%
YTD			99.93%			99.50%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH

24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING

ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

# TES FILER CITY STATION AIR EMISSION SUMMARY

NOVEMBER 2012

	OPACITY			SULFUR DIOXIDE									NITROGEN OXIDES		
	<6 MINUTE AVE OF 10 %			<24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			<30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			>90% SO2 REDUCTION LIMIT 30 DAY AVE			<30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
MONTH	43200 /	43200	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%
YTD			99.97%			99.62%			100.00%			100.00%			100.00%
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
MONTH	43200 /	43200	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%
YTD			99.94%			99.55%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH

24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING

ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

# TES FILER CITY STATION AIR EMISSION SUMMARY

DECEMBER 2012

	OPACITY			SULFUR DIOXIDE									NITROGEN OXIDES		
	<6 MINUTE AVE OF 10 %			<24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			<30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			>90% SO2 REDUCTION LIMIT 30 DAY AVE			<30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
MONTH	44598 /	44640	99.91%	686.0 /	686.0	100.00%	686.0 /	686.0	100.00%	686.0 /	686.0	100.00%	686.0 /	686.0	100.00%
YTD			99.96%			99.65%			100.00%			100.00%			100.00%
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
MONTH	44634 /	44640	99.99%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%
YTD			99.94%			99.59%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH

24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING

ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24



# TES FILER CITY STATION AIR EMISSION SUMMARY

## 4<sup>th</sup> QUARTER 2012

	OPACITY			SULFUR DIOXIDE									NITROGEN OXIDES		
	<6 MINUTE AVE OF 10 %			<24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			<30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			>90% SO2 REDUCTION LIMIT 30 DAY AVE			<30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
OCT	43014 /	43026	99.97%	671.0 /	676.0	99.26%	676.0 /	676.0	100.00%	676.0 /	676.0	100.00%	676.0 /	676.0	100.00%
NOV	43200 /	43200	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%
DEC	44598 /	44640	99.91%	686.0 /	686.0	100.00%	686.0 /	686.0	100.00%	686.0 /	686.0	100.00%	686.0 /	686.0	100.00%
4 <sup>th</sup> Quarter	130812 /	130866	99.96%	2,077.0 /	2,082.0	99.76%	2,082.0 /	2,082.0	100.00%	2,082.0 /	2,082.0	100.00%	2,082.0 /	2,082.0	100.00%
YTD			99.96%			99.65%			100.00%			100.00%			100.00%
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
OCT	39114 /	39120	99.98%	564.0 /	564.0	100.00%	564.0 /	564.0	100.00%	564.0 /	564.0	100.00%	564.0 /	564.0	100.00%
NOV	43200 /	43200	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%
DEC	44634 /	44640	99.99%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%
4 <sup>th</sup> Quarter	126948 /	126960	99.99%	2,028.0 /	2,028.0	100.00%	2,028.0 /	2,028.0	100.00%	2,028.0 /	2,028.0	100.00%	2,028.0 /	2,028.0	100.00%
YTD			99.94%			99.59%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH

24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING

ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

# CEMS Daily Averages - 10/01/12 To 12/31/12

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Period: 10/01/12 00:00:00 To 12/31/12 23:59:59; Records = 92

Date	Operating Hours		NOx		SO2		SO2		SO2		Blr 1&2	
	CEMS		30-Day		24-Hr		30-Day		30-Day		SO2	
			lb/mmBt	Vld	lb/mmBt	Vld	lb/mmBt	Vld	% Red.	Vld	Tons	Vld
10/01/12	24		0.375	30	0.167	24	0.167	30	92.54	30	0.81	24
10/02/12	24		0.375	30	0.179	24	0.168	30	92.50	30	0.91	23
10/03/12	24		0.375	30	0.112	24	0.166	30	92.59	30	1.41	24
10/04/12	24		0.376	30	0.144	24	0.165	30	92.66	30	1.68	24
10/05/12	24		0.377	30	0.163	24	0.166	30	92.61	30	1.70	24
10/06/12	24		0.378	30	0.209	24	0.167	30	92.54	30	1.89	24
10/07/12	24		0.379	30	0.184	24	0.167	30	92.52	30	1.83	24
10/08/12	24		0.379	30	0.153	24	0.167	30	92.52	30	1.64	24
10/09/12	24		0.380	30	0.130	16	0.168	29	92.50	29	0.00	16
10/10/12	24		0.381	30	0.179	24	0.169	29	92.46	29	1.68	24
10/11/12	24		0.381	30	0.146	24	0.169	29	92.46	29	1.65	24
10/12/12	24		0.382	30	0.151	24	0.169	29	92.43	29	1.62	24
10/13/12	24		0.382	30	0.122	24	0.167	29	92.49	29	1.38	24
10/14/12	23		0.382	30	0.138	23	0.167	29	92.49	29	1.41	24
10/15/12	0		0.382	30	0.000	00	0.167	29	92.49	29	0.79	21
10/16/12	0		0.382	30	0.000	00	0.167	29	92.49	29	0.84	24
10/17/12	5		0.382	30	1.793	04	0.167	29	92.49	29	0.80	23
10/18/12	24		0.383	30	0.224	24	0.169	29	92.41	29	0.99	24
10/19/12	24		0.383	30	0.270	24	0.174	29	92.24	29	1.30	24
10/20/12	24		0.383	30	0.154	24	0.173	29	92.25	29	0.76	24
10/21/12	24		0.385	30	0.066	24	0.170	29	92.39	29	0.33	24
10/22/12	24		0.385	30	0.107	24	0.168	29	92.49	29	0.51	24
10/23/12	24		0.385	30	0.147	24	0.167	29	92.52	29	0.67	23
10/24/12	24		0.386	30	0.147	24	0.163	29	92.64	29	1.38	24
10/25/12	24		0.386	30	0.144	24	0.162	29	92.70	29	1.46	24
10/26/12	24		0.386	30	0.184	24	0.163	29	92.62	29	1.82	24
10/27/12	24		0.387	30	0.179	24	0.164	29	92.55	29	1.65	24
10/28/12	24		0.387	30	0.172	24	0.164	29	92.54	29	1.72	24
10/29/12	24		0.388	30	0.166	24	0.162	29	92.60	29	1.61	24
10/30/12	24		0.389	30	0.181	24	0.162	29	92.57	29	1.77	24
10/31/12	24		0.389	30	0.149	24	0.161	29	92.61	29	1.46	24
11/01/12	24		0.389	30	0.169	24	0.162	29	92.60	29	1.67	24
11/02/12	24		0.390	30	0.184	24	0.162	29	92.58	29	1.79	24
11/03/12	24		0.391	30	0.165	24	0.161	29	92.59	29	1.64	24
11/04/12	24		0.392	30	0.174	24	0.162	29	92.57	29	1.60	24
11/05/12	24		0.393	30	0.163	24	0.161	29	92.58	29	1.52	24
11/06/12	24		0.393	30	0.188	24	0.164	29	92.46	29	1.81	24

Date	Operating Hours		NOx		SO2		SO2		SO2		Blr 1&2	
	CEMS		30-Day		24-Hr		30-Day		30-Day		SO2	
			lb/mmBt	Vld	lb/mmBt	Vld	lb/mmBt	Vld	% Red.	Vld	Tons	Vld
11/07/12	24		0.393	30	0.157	24	0.164	29	92.43	29	1.52	24
11/08/12	24		0.393	30	0.197	24	0.165	29	92.40	29	1.87	24
11/09/12	24		0.392	30	0.188	24	0.164	29	92.45	29	1.80	24
11/10/12	24		0.390	30	0.174	24	0.164	29	92.47	29	1.72	24
11/11/12	24		0.389	30	0.175	24	0.165	29	92.44	29	1.75	24
11/12/12	24		0.389	30	0.227	24	0.168	30	92.34	30	2.15	24
11/13/12	24		0.388	30	0.242	24	0.170	30	92.25	30	2.24	24
11/14/12	24		0.388	30	0.172	24	0.171	30	92.23	30	1.56	24
11/15/12	24		0.388	30	0.186	24	0.172	30	92.20	30	1.78	24
11/16/12	24		0.389	30	0.220	24	0.175	30	92.09	30	2.06	24
11/17/12	24		0.389	30	0.205	24	0.175	30	92.11	30	1.98	24
11/18/12	24		0.390	30	0.203	24	0.173	30	92.19	30	1.89	24
11/19/12	24		0.391	30	0.197	24	0.174	30	92.14	30	1.94	24
11/20/12	24		0.390	30	0.188	24	0.178	30	91.98	30	1.94	24
11/21/12	24		0.390	30	0.205	24	0.182	30	91.86	30	1.91	24
11/22/12	24		0.391	30	0.221	24	0.184	30	91.79	30	1.84	24
11/23/12	24		0.391	30	0.194	24	0.186	30	91.75	30	1.83	24
11/24/12	24		0.393	30	0.197	24	0.187	30	91.70	30	1.92	24
11/25/12	24		0.394	30	0.170	24	0.187	30	91.74	30	1.75	24
11/26/12	24		0.394	30	0.193	24	0.187	30	91.74	30	1.70	24
11/27/12	24		0.394	30	0.283	24	0.191	30	91.58	30	2.19	24
11/28/12	24		0.394	30	0.159	24	0.191	30	91.61	30	1.66	24
11/29/12	24		0.395	30	0.191	24	0.191	30	91.63	30	2.02	24
11/30/12	24		0.395	30	0.214	24	0.193	30	91.55	30	2.13	24
12/01/12	24		0.396	30	0.203	24	0.194	30	91.53	30	1.96	24
12/02/12	24		0.396	30	0.193	24	0.195	30	91.55	30	1.74	24
12/03/12	24		0.395	30	0.174	24	0.195	30	91.58	30	1.79	24
12/04/12	24		0.396	30	0.216	24	0.196	30	91.56	30	2.08	24
12/05/12	16		0.396	30	0.617	16	0.196	30	91.56	30	2.01	24
12/06/12	0		0.396	30	0.000	00	0.196	30	91.56	30	1.17	24
12/07/12	0		0.396	30	0.000	00	0.196	30	91.56	30	0.88	24
12/08/12	22		0.396	30	0.434	21	0.196	30	91.56	30	1.48	23
12/09/12	24		0.395	30	0.209	24	0.198	30	91.53	30	2.13	24
12/10/12	24		0.395	30	0.125	24	0.196	30	91.65	30	1.65	24
12/11/12	24		0.395	30	0.174	24	0.196	30	91.66	30	1.81	24
12/12/12	24		0.397	30	0.174	24	0.196	30	91.69	30	1.70	24
12/13/12	24		0.398	30	0.181	24	0.195	30	91.71	30	1.70	24
12/14/12	24		0.400	30	0.219	24	0.197	30	91.66	30	1.95	24
12/15/12	24		0.402	30	0.130	24	0.195	30	91.71	30	1.40	24
12/16/12	24		0.403	30	0.164	24	0.193	30	91.79	30	1.64	24
12/17/12	24		0.403	30	0.188	24	0.192	30	91.86	30	1.75	24

Date	Operating Hours		NOx		SO2		SO2		SO2		Blr 1&2	
	CEMS		30-Day		24-Hr		30-Day		30-Day		SO2	
			lb/mmBt	Vld	lb/mmBt	Vld	lb/mmBt	Vld	% Red.	Vld	Tons	Vld
12/18/12	24		0.402	30	0.234	24	0.194	30	91.76	30	2.00	24
12/19/12	24		0.401	30	0.164	24	0.193	30	91.78	30	1.71	24
12/20/12	24		0.401	30	0.190	24	0.192	30	91.83	30	1.85	24
12/21/12	24		0.401	30	0.188	24	0.191	30	91.87	30	1.80	24
12/22/12	24		0.402	30	0.158	24	0.190	30	91.94	30	1.73	24
12/23/12	24		0.403	30	0.189	24	0.190	30	91.97	30	2.12	24
12/24/12	24		0.404	30	0.183	24	0.189	30	91.98	30	2.02	24
12/25/12	24		0.405	30	0.165	24	0.188	30	92.03	30	1.86	24
12/26/12	24		0.406	30	0.217	24	0.188	30	92.03	30	2.24	24
12/27/12	24		0.407	30	0.194	24	0.188	30	92.03	30	1.96	24
12/28/12	24		0.408	30	0.199	24	0.188	30	92.03	30	2.09	24
12/29/12	24		0.409	30	0.191	24	0.189	30	92.00	30	1.92	24
12/30/12	24		0.409	30	0.189	24	0.189	30	91.99	30	1.76	24
12/31/12	24		0.411	30	0.189	24	0.185	30	92.15	30	1.91	24

# CEMS Daily Averages - 10/01/12 To 12/31/12

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Period: 10/01/12 00:00:00 To 12/31/12 23:59:59; Records = 92

Date	Operating Hours		NOx		SO2		SO2		SO2	
	CEMS		30-Day		24-Hr		30-Day		30-Day	
			lb/mmBt	Vld	lb/mmBt	Vld	lb/mmBt	Vld	% Red.	Vld
10/01/12	0		0.365	30	0.000	00	0.175	30	92.25	30
10/02/12	6		0.365	30	0.714	05	0.175	30	92.25	30
10/03/12	24		0.364	30	0.177	24	0.176	30	92.18	30
10/04/12	24		0.365	30	0.203	24	0.178	30	92.07	30
10/05/12	24		0.365	30	0.188	24	0.180	30	91.97	30
10/06/12	24		0.365	30	0.182	24	0.182	30	91.89	30
10/07/12	24		0.366	30	0.189	24	0.182	30	91.86	30
10/08/12	24		0.366	30	0.185	24	0.182	30	91.86	30
10/09/12	24		0.366	30	0.175	24	0.182	30	91.90	30
10/10/12	24		0.367	30	0.167	24	0.181	30	91.96	30
10/11/12	24		0.368	30	0.190	24	0.181	30	91.94	30
10/12/12	24		0.370	30	0.176	24	0.181	30	91.93	30
10/13/12	24		0.372	30	0.157	24	0.180	30	91.96	30
10/14/12	24		0.372	30	0.165	24	0.179	30	91.97	30
10/15/12	24		0.373	30	0.178	21	0.180	30	91.92	30
10/16/12	24		0.374	30	0.177	24	0.181	30	91.85	30
10/17/12	24		0.376	30	0.158	24	0.181	30	91.89	30
10/18/12	5		0.376	30	0.102	05	0.181	30	91.89	30
10/19/12	0		0.376	30	0.000	00	0.181	30	91.89	30
10/20/12	0		0.376	30	0.000	00	0.181	30	91.89	30
10/21/12	0		0.376	30	0.000	00	0.181	30	91.89	30
10/22/12	0		0.376	30	0.000	00	0.181	30	91.89	30
10/23/12	1		0.376	30	0.000	00	0.181	30	91.89	30
10/24/12	24		0.373	30	0.140	24	0.180	30	91.95	30
10/25/12	24		0.371	30	0.163	24	0.180	30	91.95	30
10/26/12	24		0.372	30	0.194	24	0.181	30	91.93	30
10/27/12	24		0.372	30	0.162	24	0.180	30	91.95	30
10/28/12	24		0.372	30	0.182	24	0.180	30	91.93	30
10/29/12	24		0.373	30	0.165	24	0.178	30	91.97	30
10/30/12	24		0.374	30	0.187	24	0.179	30	91.93	30
10/31/12	24		0.375	30	0.153	24	0.178	30	91.97	30
11/01/12	24		0.376	30	0.176	24	0.177	30	91.96	30
11/02/12	24		0.374	30	0.186	24	0.178	30	91.93	30
11/03/12	24		0.373	30	0.169	24	0.177	30	91.95	30
11/04/12	24		0.373	30	0.154	24	0.176	30	91.97	30
11/05/12	24		0.374	30	0.148	24	0.175	30	91.98	30
11/06/12	24		0.375	30	0.184	24	0.174	30	92.00	30

Date	Operating Hours		NOx		SO2		SO2		SO2		
	CEMS		30-Day	Vld	24-Hr	Vld	30-Day	Vld	30-Day	Vld	
			lb/mmBt		lb/mmBt		lb/mmBt		% Red.		
11/07/12	24		0.377	30	0.155	24	0.173	30	92.04	30	0.00
11/08/12	24		0.378	30	0.184	24	0.174	30	92.06	30	0.00
11/09/12	24		0.378	30	0.184	24	0.173	30	92.11	30	0.00
11/10/12	24		0.377	30	0.184	24	0.173	30	92.13	30	0.00
11/11/12	24		0.376	30	0.191	24	0.173	30	92.13	30	0.00
11/12/12	24		0.376	30	0.220	24	0.174	30	92.09	30	0.00
11/13/12	24		0.379	30	0.220	24	0.175	30	92.03	30	0.00
11/14/12	24		0.381	30	0.150	24	0.175	30	92.07	30	0.00
11/15/12	24		0.383	30	0.183	24	0.175	30	92.04	30	0.00
11/16/12	24		0.384	30	0.206	24	0.176	30	92.03	30	0.00
11/17/12	24		0.384	30	0.204	24	0.177	30	92.01	30	0.00
11/18/12	24		0.383	30	0.191	24	0.178	30	91.99	30	0.00
11/19/12	24		0.384	30	0.210	24	0.179	30	91.96	30	0.00
11/20/12	24		0.384	30	0.220	24	0.181	30	91.95	30	0.00
11/21/12	24		0.384	30	0.198	24	0.181	30	91.97	30	0.00
11/22/12	24		0.382	30	0.173	24	0.182	30	91.98	30	0.00
11/23/12	24		0.386	30	0.192	24	0.183	30	91.92	30	0.00
11/24/12	24		0.390	30	0.201	24	0.184	30	91.89	30	0.00
11/25/12	24		0.391	30	0.191	24	0.184	30	91.90	30	0.00
11/26/12	24		0.391	30	0.176	24	0.185	30	91.89	30	0.00
11/27/12	24		0.392	30	0.167	24	0.184	30	91.92	30	0.00
11/28/12	24		0.393	30	0.183	24	0.185	30	91.91	30	0.00
11/29/12	24		0.393	30	0.228	24	0.186	30	91.87	30	0.00
11/30/12	24		0.394	30	0.227	24	0.189	30	91.78	30	0.00
12/01/12	24		0.396	30	0.204	24	0.189	30	91.77	30	0.00
12/02/12	24		0.397	30	0.174	24	0.189	30	91.82	30	0.00
12/03/12	24		0.398	30	0.200	24	0.190	30	91.80	30	0.00
12/04/12	24		0.401	30	0.217	24	0.192	30	91.73	30	0.00
12/05/12	24		0.403	30	0.218	24	0.194	30	91.65	30	0.00
12/06/12	24		0.403	30	0.233	24	0.196	30	91.57	30	0.00
12/07/12	24		0.403	30	0.176	24	0.197	30	91.52	30	0.00
12/08/12	24		0.404	30	0.170	24	0.196	30	91.53	30	0.00
12/09/12	24		0.406	30	0.239	24	0.198	30	91.45	30	0.00
12/10/12	24		0.408	30	0.221	24	0.199	30	91.39	30	0.00
12/11/12	24		0.410	30	0.207	24	0.200	30	91.36	30	0.00
12/12/12	24		0.411	30	0.180	24	0.199	30	91.41	30	0.00
12/13/12	24		0.412	30	0.174	24	0.197	30	91.45	30	0.00
12/14/12	24		0.412	30	0.188	24	0.198	30	91.39	30	0.00
12/15/12	24		0.413	30	0.166	24	0.198	30	91.40	30	0.00
12/16/12	24		0.414	30	0.187	24	0.197	30	91.41	30	0.00
12/17/12	24		0.414	30	0.184	24	0.196	30	91.43	30	0.00

Date	Operating Hours		NOx		SO2		SO2		SO2		
	CEMS		30-Day		24-Hr		30-Day		30-Day		
			lb/mmBt	Vld	lb/mmBt	Vld	lb/mmBt	Vld	% Red.	Vld	
12/18/12	24		0.415	30	0.194	24	0.197	30	91.41	30	0.00
12/19/12	24		0.416	30	0.195	24	0.196	30	91.41	30	0.00
12/20/12	24		0.418	30	0.204	24	0.196	30	91.41	30	0.00
12/21/12	24		0.419	30	0.187	24	0.195	30	91.40	30	0.00
12/22/12	24		0.421	30	0.193	24	0.196	30	91.37	30	0.00
12/23/12	24		0.422	30	0.245	24	0.198	30	91.31	30	0.00
12/24/12	24		0.422	30	0.229	24	0.199	30	91.28	30	0.00
12/25/12	24		0.424	30	0.211	24	0.199	30	91.28	30	0.00
12/26/12	24		0.425	30	0.235	24	0.201	30	91.22	30	0.00
12/27/12	24		0.425	30	0.204	24	0.202	30	91.18	30	0.00
12/28/12	24		0.426	30	0.230	24	0.204	30	91.12	30	0.00
12/29/12	24		0.426	30	0.205	24	0.203	30	91.14	30	0.00
12/30/12	24		0.426	30	0.171	24	0.201	30	91.19	30	0.00
12/31/12	24		0.426	30	0.201	24	0.201	30	91.17	30	0.00

Continuous Emission Monitor Quarterly Report Summary  
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 Opacity

Emission Limitation: 10

Reporting Period Dates: From 10/01/2012 To 12/31/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/27/2012

Total Source Operating Time in Reporting Period: 21811 periods

CEMS Performance Summary

Total CEMS Downtimes  
including exemptions

	%	
	Duration	Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	6	0.03
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	6	0.03

Durations in 6-minute periods

(1) % Unavailable is calculated by the following formula:

% Unavailable = CEMS Downtime during Source Operating Time/ Source Operating Time x 100

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	2	0.01
2. Control Equip Problems	1	0.00
3. Process Problems	0	0.00
4. Other Known Causes	6	0.03
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	9	0.04

Durations in 6-minute periods

(2) % Excess Emissions is calculated by the following formulas:

% Excess Emissions = Total Duration of Excess Emissions/ Source Operating Time x 100

On a separate page, describe any changes since last reporting period in CMS, process or controls.

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this report are true, accurate, and complete.

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Continuous Emission Monitor Quarterly Report Summary  
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 NOx lb/mmBtu 30-Day

Emission Limitation: 0.60

Reporting Period Dates: From 10/01/2012 To 12/31/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/28/2012

Total Source Operating Time in Reporting Period: 2082 hours

CEMS Performance Summary

Total CEMS Downtimes  
including exemptions

	Duration	%
		Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	0	0.00

Durations in hours

(1) % Unavailable is calculated by the following formula:

% Unavailable = CEMS Downtime during Source Operating Time/ Source Operating Time x 100

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess
		Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

% Excess Emissions = Total Duration of Excess Emissions/ Source Operating Time x 100

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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Continuous Emission Monitor Quarterly Report Summary  
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 SO<sub>2</sub> lb/mmBtu 24-Hr

Emission Limitation: 0.7

Reporting Period Dates: From 10/01/2012 To 12/31/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/28/2012

Total Source Operating Time in Reporting Period: 2082 hours

CEMS Performance Summary

Total CEMS Downtimes  
including exemptions

	Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	8	0.38
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	8	0.38

Durations in hours

(1) % Unavailable is calculated by the following formula:

% Unavailable = CEMS Downtime during Source Operating Time/ Source Operating Time x 100

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	5	0.24
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	5	0.24

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

% Excess Emissions = Total Duration of Excess Emissions/ Source Operating Time x 100

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## Continuous Emission Monitor Quarterly Report Summary

## Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 SO<sub>2</sub> lb/mmBtu 30-Day

Emission Limitation: 0.5

Reporting Period Dates: From 10/01/2012 To 12/31/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/28/2012

Total Source Operating Time in Reporting Period: 2082 hours

## CEMS Performance Summary

Total CEMS Downtimes  
including exemptions

		%
1. CEMS downtime in reporting period due to:	Duration	Unavailable (1)
1. Monitor Equipment Malfunctions	8	0.38
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	8	0.38

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

## Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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## Continuous Emission Monitor Quarterly Report Summary

## Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 SO2 Reduction 30-Day

Emission Limitation: 90

Reporting Period Dates: From 10/01/2012 To 12/31/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/28/2012

Total Source Operating Time in Reporting Period: 2082 hours

CEMS Performance Summary	Total CEMS Downtimes including exemptions	
	%	
1. CEMS downtime in reporting period due to:	Duration	Unavailable (1)
1. Monitor Equipment Malfunctions	8	0.38
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	2	0.10
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	10	0.48

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

## Emission Data Summary

1. Duration of excess emissions in reporting period due to:	% Excess Emissions(2)	
	Duration	
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

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Continuous Emission Monitor Quarterly Report Summary  
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boilers Total SO2 Tons

Emission Limitation: 6.45

Reporting Period Dates: From 10/01/2012 To 12/31/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boilers

Date of Last CEMS Certification or Audit: 08/30/2012

Total Source Operating Time in Reporting Period: 2208 hours

CEMS Performance Summary

Total CEMS Downtimes  
including exemptions

	%	
	Duration	Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	10	0.45
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	10	0.45

Durations in hours

(1) % Unavailable is calculated by the following formula:

% Unavailable = CEMS Downtime during Source Operating Time/ Source Operating Time x 100

Emission Data Summary

	% Excess	
	Duration	Emissions(2)
1. Duration of excess emissions in reporting period due to:		
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

% Excess Emissions = Total Duration of Excess Emissions/ Source Operating Time x 100

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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## Continuous Emission Monitor Quarterly Report Summary

## Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 CO lb/mmBtu 24-Hr

Emission Limitation: 0.3

Reporting Period Dates: From 10/01/2012 To 12/31/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/28/2012

Total Source Operating Time in Reporting Period: 2082 hours

## CEMS Performance Summary

Total CEMS Downtimes  
including exemptions

		%
1. CEMS downtime in reporting period due to:	Duration	Unavailable (1)
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	0	0.00

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

## Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	24	1.15
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	24	1.15

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

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Continuous Emission Monitor Quarterly Report Summary  
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 CO lb/hr 24-Hr

Emission Limitation: 115.2

Reporting Period Dates: From 10/01/2012 To 12/31/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/29/2012

Total Source Operating Time in Reporting Period: 2082 hours

CEMS Performance Summary

Total CEMS Downtimes  
including exemptions

		%
	Duration	Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	2	0.10
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	2	0.10

Durations in hours

(1) % Unavailable is calculated by the following formula:

% Unavailable = CEMS Downtime during Source Operating Time/ Source Operating Time x 100

Emission Data Summary

		% Excess
	Duration	Emissions(2)
1. Duration of excess emissions in reporting period due to:		
1. Startup/Shutdown	19	0.91
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	19	0.91

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

% Excess Emissions = Total Duration of Excess Emissions/ Source Operating Time x 100

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Continuous Emission Monitor Quarterly Report Summary  
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 Opacity

Emission Limitation: 10

Reporting Period Dates: From 10/01/2012 To 12/31/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/27/2012

Total Source Operating Time in Reporting Period: 21160 periods

CEMS Performance Summary

Total CEMS Downtimes  
including exemptions

	%	
	Duration	Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	4	0.02
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	4	0.02

Durations in 6-minute periods

(1) % Unavailable is calculated by the following formula:

% Unavailable = CEMS Downtime during Source Operating Time/ Source Operating Time x 100

Emission Data Summary

	% Excess	
	Duration	Emissions(2)
1. Duration of excess emissions in reporting period due to:		
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	1	0.00
5. Unknown Causes	1	0.00
2. Total duration of excess emissions.....	2	0.01

Durations in 6-minute periods

(2) % Excess Emissions is calculated by the following formulas:

% Excess Emissions = Total Duration of Excess Emissions/ Source Operating Time x 100

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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Continuous Emission Monitor Quarterly Report Summary  
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 NOx lb/mmBtu 30-Day

Emission Limitation: 0.60

Reporting Period Dates: From 10/01/2012 To 12/31/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/29/2012

Total Source Operating Time in Reporting Period: 2028 hours

CEMS Performance Summary

Total CEMS Downtimes  
including exemptions

		%
	Duration	Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	2	0.10
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	2	0.10

Durations in hours

(1) % Unavailable is calculated by the following formula:

% Unavailable = CEMS Downtime during Source Operating Time/ Source Operating Time x 100

Emission Data Summary

		% Excess
	Duration	Emissions(2)
1. Duration of excess emissions in reporting period due to:		
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

% Excess Emissions = Total Duration of Excess Emissions/ Source Operating Time x 100

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NAME

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SIGNATURE

Env. Planner  
TITLE

1-28-13  
DATE

## Continuous Emission Monitor Quarterly Report Summary

## Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 SO2 lb/mmBtu 24-Hr

Emission Limitation: 0.7

Reporting Period Dates: From 10/01/2012 To 12/31/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/29/2012

Total Source Operating Time in Reporting Period: 2028 hours

CEMS Performance Summary		Total CEMS Downtimes including exemptions	
		Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:			
1. Monitor Equipment Malfunctions		2	0.10
2. Non-Monitor CEMS Equipment Malfunction		0	0.00
3. Calibration/QA		0	0.00
4. Other Known Causes		0	0.00
5. Unknown Causes		0	0.00
2. Total CEMS Downtime		2	0.10

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary		
1. Duration of excess emissions in reporting period due to:		
	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this report are true, accurate, and complete.

<u>Jason M. Prentice</u>	<u>Jason M. Prentice</u>	<u>Env. Planner</u>	<u>1-28-13</u>
NAME	SIGNATURE	TITLE	DATE

## Continuous Emission Monitor Quarterly Report Summary

## Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 SO<sub>2</sub> lb/mmBtu 30-Day

Emission Limitation: 0.5

Reporting Period Dates: From 10/01/2012 To 12/31/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/29/2012

Total Source Operating Time in Reporting Period: 2028 hours

## CEMS Performance Summary

Total CEMS Downtimes  
including exemptions

	Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	2	0.10
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	2	0.10

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

## Emission Data Summary

	Duration	% Excess Emissions(2)
1. Duration of excess emissions in reporting period due to:		
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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Continuous Emission Monitor Quarterly Report Summary  
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 SO2 Reduction 30-Day

Emission Limitation: 90

Reporting Period Dates: From 10/01/2012 To 12/31/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/29/2012

Total Source Operating Time in Reporting Period: 2028 hours

CEMS Performance Summary

Total CEMS Downtimes  
including exemptions

		%
	Duration	Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	2	0.10
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	2	0.10

Durations in hours

(1) % Unavailable is calculated by the following formula:

% Unavailable = CEMS Downtime during Source Operating Time/ Source Operating Time x 100

Emission Data Summary

		% Excess
	Duration	Emissions(2)
1. Duration of excess emissions in reporting period due to:		
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

% Excess Emissions = Total Duration of Excess Emissions/ Source Operating Time x 100

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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Continuous Emission Monitor Quarterly Report Summary  
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 CO lb/mmBtu 24-Hr

Emission Limitation: 0.3

Reporting Period Dates: From 10/01/2012 To 12/31/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/29/2012

Total Source Operating Time in Reporting Period: 2028 hours

CEMS Performance Summary

Total CEMS Downtimes  
including exemptions

	Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	2	0.10
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	2	0.10

Durations in hours

(1) % Unavailable is calculated by the following formula:

% Unavailable = CEMS Downtime during Source Operating Time/ Source Operating Time x 100

Emission Data Summary

	Duration	% Excess Emissions(2)
1. Duration of excess emissions in reporting period due to:		
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

% Excess Emissions = Total Duration of Excess Emissions/ Source Operating Time x 100

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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## Continuous Emission Monitor Quarterly Report Summary

## Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 CO lb/hr 24-Hr

Emission Limitation: 115.2

Reporting Period Dates: From 10/01/2012 To 12/31/2012

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/30/2012

Total Source Operating Time in Reporting Period: 2028 hours

## CEMS Performance Summary

Total CEMS Downtimes  
including exemptions

	Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	5	0.25
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	5	0.25

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

## Emission Data Summary

	Duration	% Excess Emissions(2)
1. Duration of excess emissions in reporting period due to:		
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

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## Downtime Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** Opacity

**Data in the Reporting Period: 10/01/12 to 12/31/12**

Incid. No.	Start Date	End Date	Duration Periods	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	11/14/12 13:54:39	11/14/12 14:29:40	6	15=Preventative Maintenance	3=Quality Assurance Calibrations	

**Total Downtime in the Reporting Period = 6 Periods , Data Availability for this Reporting Period = 99.97 %**

**Total Operating Time in the Reporting Period = 21811 Periods**

## Downtime Report

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** NOx CEMS

**Data in the Reporting Period: 10/01/12 to 12/31/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

**Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%**

**Total Operating Time in the Reporting Period = 2082 hours**



## Downtime Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** SO2 CEMS

**Data in the Reporting Period: 10/01/12 to 12/31/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	10/09/12 05:00:35	10/09/12 12:59:32	8	11=Excess Drift Primary Analyzer	1=Monitor Equip Malfunctions	So2 Analyzer was Locked up. Shut down analyzer

**Total Downtime in the Reporting Period = 8 hours , Data Availability for this Reporting Period = 99.62 %**

**Total Operating Time in the Reporting Period = 2082 hours**

TESFiler0002342

## Downtime Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** CO #/MMBTU CEMS

**Data in the Reporting Period: 10/01/12 to 12/31/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

**Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%**

**Total Operating Time in the Reporting Period = 2082 hours**

TESFiler0002343

## Downtime Report

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** CO #/HOUR CEMS

**Data in the Reporting Period: 10/01/12 to 12/31/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	10/17/12 19:00:34	10/17/12 19:59:34	1	98=Automatic Calibration	3=Quality Assurance Calibrations	
2	12/08/12 02:00:36	12/08/12 02:59:36	1	98=Automatic Calibration	3=Quality Assurance Calibrations	

**Total Downtime in the Reporting Period = 2 hours , Data Availability for this Reporting Period = 99.90 %**

**Total Operating Time in the Reporting Period = 2082 hours**

## Downtime Report

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** CO2 Analyzer

**Data in the Reporting Period: 10/01/12 to 12/31/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

**Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%**

**Total Operating Time in the Reporting Period = 2082 hours**

## Downtime Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** Flow Analyzer

**Data in the Reporting Period: 10/01/12 to 12/31/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

**Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%**

**Total Operating Time in the Reporting Period = 2082 hours**

## Downtime Report

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** Inlet SO2 CEMS

**Data in the Reporting Period: 10/01/12 to 12/31/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	11/02/12 09:00:45	11/02/12 09:59:45	1	14=Recalibration	3=Quality Assurance Calibrations	
2	11/13/12 16:00:35	11/13/12 16:59:35	1	15=Preventative Maintenance	3=Quality Assurance Calibrations	

**Total Downtime in the Reporting Period = 2 hours , Data Availability for this Reporting Period = 99.90 %**

**Total Operating Time in the Reporting Period = 2082 hours**

## Downtime Report

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** Inlet CO2 Analyzer

**Data in the Reporting Period: 10/01/12 to 12/31/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	11/02/12 09:00:45	11/02/12 09:59:45	1	14=Recalibration	3=Quality Assurance Calibrations	
2	11/13/12 16:00:35	11/13/12 16:59:35	1	15=Preventative Maintenance	3=Quality Assurance Calibrations	
3	12/08/12 02:00:36	12/08/12 02:59:36	1	14=Recalibration	3=Quality Assurance Calibrations	

**Total Downtime in the Reporting Period = 3 hours , Data Availability for this Reporting Period = 99.86 %**

**Total Operating Time in the Reporting Period = 2082 hours**

## Downtime Report

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** Opacity

**Data in the Reporting Period: 10/01/12 to 12/31/12**

Incid. No.	Start Date	End Date	Duration Periods	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	11/14/12 14:24:36	11/14/12 14:47:41	4	15=Preventative Maintenance	3=Quality Assurance Calibrations	

**Total Downtime in the Reporting Period = 4 Periods , Data Availability for this Reporting Period = 99.98 %**

**Total Operating Time in the Reporting Period = 21160 Periods**



## Downtime Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** NOx CEMS

**Data in the Reporting Period: 10/01/12 to 12/31/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	10/15/12 09:00:35	10/15/12 10:59:34	2	11=Excess Drift Primary Analyzer	1=Monitor Equip Malfunctions	Repaired CO2 analyzer; ran passing calibrations.

**Total Downtime in the Reporting Period = 2 hours , Data Availability for this Reporting Period = 99.90 %**

**Total Operating Time in the Reporting Period = 2028 hours**

## Downtime Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** SO2 CEMS

**Data in the Reporting Period: 10/01/12 to 12/31/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	10/15/12 09:00:35	10/15/12 10:59:34	2	11=Excess Drift Primary Analyzer	1=Monitor Equip Malfunctions	Repaired CO2 analyzer; ran passing calibrations.

**Total Downtime in the Reporting Period = 2 hours , Data Availability for this Reporting Period = 99.90 %**

**Total Operating Time in the Reporting Period = 2028 hours**

TESFiler0002351

## Downtime Report

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** CO #/MMBTU CEMS

**Data in the Reporting Period: 10/01/12 to 12/31/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	10/15/12 09:00:35	10/15/12 10:59:34	2	11=Excess Drift Primary Analyzer	1=Monitor Equip Malfunctions	Repaired CO2 analyzer; ran passing calibrations.

**Total Downtime in the Reporting Period = 2 hours , Data Availability for this Reporting Period = 99.90 %**

**Total Operating Time in the Reporting Period = 2028 hours**

## Downtime Report

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler2

**Parameter:** CO #/HOUR CEMS

**Data in the Reporting Period: 10/01/12 to 12/31/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	10/02/12 18:00:35	10/02/12 18:59:35	1	98=Automatic Calibration	3=Quality Assurance Calibrations	
2	10/15/12 08:00:38	10/15/12 10:59:34	3	98=Automatic Calibration	3=Quality Assurance Calibrations	
3	10/23/12 23:00:37	10/23/12 23:59:37	1	98=Automatic Calibration	3=Quality Assurance Calibrations	

**Total Downtime in the Reporting Period = 5 hours , Data Availability for this Reporting Period = 99.75 %**

**Total Operating Time in the Reporting Period = 2028 hours**

## Downtime Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** CO2 Analyzer

**Data in the Reporting Period: 10/01/12 to 12/31/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	10/15/12 08:00:38	10/15/12 10:59:34	3	16=Primary Analyzer Malfunction	1=Monitor Equip Malfunctions	Repaired CO2 analyzer; ran passing calibrations.

**Total Downtime in the Reporting Period = 3 hours , Data Availability for this Reporting Period = 99.85 %**

**Total Operating Time in the Reporting Period = 2028 hours**

## Downtime Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** Flow Analyzer

**Data in the Reporting Period: 10/01/12 to 12/31/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

**Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%**

**Total Operating Time in the Reporting Period = 2028 hours**

TESFiler0002355

## Downtime Report

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** Inlet SO2 CEMS

**Data in the Reporting Period: 10/01/12 to 12/31/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

**Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%**

**Total Operating Time in the Reporting Period = 2028 hours**

## Downtime Report

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** Inlet CO2 Analyzer

**Data in the Reporting Period: 10/01/12 to 12/31/12**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

**Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%**

**Total Operating Time in the Reporting Period = 2028 hours**



## Excess Emissions Report

**Facility Name:** T.E.S. Filer City Station**Location:** Filer City, MI**Source:** Boiler 1**Parameter:** Opacity**Limit:** 10**Data in the Reporting Period: 10/01/12 to 12/31/12**

Inc No.	Start Date	End Date	Duration Periods	Emission Reading	EPA Category	Reason for Incident	Corrective Action
1	10/16/12 09:18:32	10/16/12 09:23:32	1	23	Startup/Shutdown	Unit #1 Shut Down For Maintenance	Start Up after maintenance is completed
2	10/18/12 03:30:36	10/18/12 03:35:36	1	13	Startup/Shutdown	Unit #1 was down for Maint. starting	Starting up #1 Boiler.
3	12/05/12 13:54:34	12/05/12 14:29:39	6	42	Other Known Causes	Blown Tubes on #1 Boiler. Boiler Down.	Repair Bad Tubes and then Start-Up.
4	12/26/12 05:48:34	12/26/12 05:53:34	1	12	Control Equip Problems	Changed out Atomizer	Installed Atomizer and put back in Service.

**Total Duration in the Reporting Period = 9 Periods , Percentage of Operating Time above Excess Emission Limit = 0.04 %****Total Operating Time in the Reporting Period = 21811 Periods**

## Excess Emissions Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** NOx lb/mmBtu 30-Day

**Limit:** 0.60

**Data in the Reporting Period: 10/01/12 to 12/31/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

**Total Duration in the Reporting Period = 0 hours**

**Total Operating Time in the Reporting Period = 2082 hours**

TESFiler0002359

## Excess Emissions Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** SO2 lb/mmBtu Daily Ave.

Limit: 0.70

**Data in the Reporting Period: 10/01/12 to 12/31/12**

Inc No.	Start Date	End Date	Duration hours	Emission	Limit	EPA Category	Reason for Excess Emission	Corrective Action
1	10/17/12 00:00:59	10/17/12 23:59:59	5	1.8	0.7	Startup/Shutdown	Start after Maintenance was Completed.	Starting Unit #1 Boiler .

**Total Duration in the Reporting Period = 5 hours , Percentage of Operating Time above Excess Emission Limit = 0.24 %**

**Total Operating Time in the Reporting Period = 2082 hours**

## Excess Emissions Report

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** SO2 lb/mmBtu 30-Day

**Limit:** 0.5

**Data in the Reporting Period: 10/01/12 to 12/31/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

**Total Duration in the Reporting Period = 0 hours**

**Total Operating Time in the Reporting Period = 2082 hours**

## Excess Emissions Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** SO2 Reduction 30-Day

**Limit:** 90

**Data in the Reporting Period: 10/01/12 to 12/31/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

**Total Duration in the Reporting Period = 0 hours**

**Total Operating Time in the Reporting Period = 2082 hours**

TESFiler0002362

## Excess Emissions Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boilers

**Parameter:** Total SO2 Tons

**Limit:** 6.45

**Data in the Reporting Period: 10/01/12 to 12/31/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

**Total Duration in the Reporting Period = 0 hours**

**Total Operating Time in the Reporting Period = 2208 hours**

TESFiler0002363

## Excess Emissions Report

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** CO lb/mmBtu 24-Hr Roll

**Limit:** 0.3

**Data in the Reporting Period: 10/01/12 to 12/31/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
1	10/14/12 21:00:37	10/14/12 21:59:37	1	0.5	0.5	Startup/Shutdown	Shut Down Boiler #1 for Maintenance.	Start up after shut down.
2	10/18/12 02:00:35	10/19/12 00:59:33	23	0.6	0.6	Startup/Shutdown	Starting Up Unit #1 after Maintenance was	Start Up Unit #1.

**Total Duration in the Reporting Period = 24 hours , Percentage of Operating Time above Excess Emission Limit = 1.15 %**

**Total Operating Time in the Reporting Period = 2082 hours**

## Excess Emissions Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 1

**Parameter:** CO lb/hr 24-Hr Roll

**Limit:** 115.2

**Data in the Reporting Period: 10/01/12 to 12/31/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
1	10/18/12 00:00:37	10/18/12 18:59:42	19	147.2	160.7	Startup/Shutdown	Starting up Unit #1 after Maintenance was	Start Up Unit #1

**Total Duration in the Reporting Period = 19 hours , Percentage of Operating Time above Excess Emission Limit = 0.91 %**

**Total Operating Time in the Reporting Period = 2082 hours**

TESFiler0002365



## Excess Emissions Report

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** Opacity

**Limit:** 10

**Data in the Reporting Period: 10/01/12 to 12/31/12**

Inc No.	Start Date	End Date	Duration Periods	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
1	10/15/12 21:12:34	10/15/12 21:17:34	1	24	24	Other Known Causes	Slurry Temp. Dropped Low.	Bypas Temp until Temp returned to Normal.
2	12/06/12 15:42:42	12/06/12 15:47:42	1	13	13	Unknown Causes	Process Problems	Blew tubes on #1 Boiler.

**Total Duration in the Reporting Period = 2 Periods , Percentage of Operating Time above Excess Emission Limit = 0.01 %**

**Total Operating Time in the Reporting Period = 21160 Periods**

## Excess Emissions Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** NOx lb/mmBtu 30-Day

**Limit:** 0.60

**Data in the Reporting Period: 10/01/12 to 12/31/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

**Total Duration in the Reporting Period = 0 hours**

**Total Operating Time in the Reporting Period = 2028 hours**

TESFiler0002367

## Excess Emissions Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** SO2 lb/mmBtu Daily Ave.

Limit: 0.70

**Data in the Reporting Period: 10/01/12 to 12/31/12**

Inc No.	Start Date	End Date	Duration hours	Emission	Limit	EPA Category	Reason for Excess Emission	Corrective Action
								No Incidents found in this Reporting Period

**Total Duration in the Reporting Period = 0 hours**

**Total Operating Time in the Reporting Period = 2028 hours**

TESFiler0002368

## Excess Emissions Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** SO2 lb/mmBtu 30-Day

**Limit:** 0.5

**Data in the Reporting Period: 10/01/12 to 12/31/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

**Total Duration in the Reporting Period = 0 hours**

**Total Operating Time in the Reporting Period = 2028 hours**

TESFiler0002369

## Excess Emissions Report

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** SO2 Reduction 30-Day

**Limit:** 90

**Data in the Reporting Period: 10/01/12 to 12/31/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

**Total Duration in the Reporting Period = 0 hours**

**Total Operating Time in the Reporting Period = 2028 hours**

## Excess Emissions Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** CO lb/mmBtu 24-Hr Roll

**Limit:** 0.3

**Data in the Reporting Period: 10/01/12 to 12/31/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

**Total Duration in the Reporting Period = 0 hours**

**Total Operating Time in the Reporting Period = 2028 hours**

TESFiler0002371

## Excess Emissions Report

Page 1 of 1

**Facility Name:** T.E.S. Filer City Station

**Location:** Filer City, MI

**Source:** Boiler 2

**Parameter:** CO lb/hr 24-Hr Roll

**Limit:** 115.2

**Data in the Reporting Period: 10/01/12 to 12/31/12**

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

**Total Duration in the Reporting Period = 0 hours**

**Total Operating Time in the Reporting Period = 2028 hours**

TESFiler0002372

# Linearity Test Report - 2012Q4

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 1 NOx High Audit Test Results Analyzer Span: 500.00 ppm

Mfr & Model: Thermo 42i

Serial Number: 0623017966

Low-Level Calibration Gas  
(20-30% of Span)  
( 100.00 ppm - 150.00 ppm)

Concentration: 124.00  
Cylinder No.: CC27079  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

Mid-Level Calibration Gas  
(50-60% of Span)  
( 250.00 ppm - 300.00 ppm)

Concentration: 275.00  
Cylinder No.: CC214741  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

High-Level Calibration Gas  
(80-100% of Span)  
( 400.00 ppm - 500.00 ppm)

Concentration: 429.00  
Cylinder No.: CC124822  
Expiration Date: 03/23/14

Vendor ID: B62012  
Gas Type Code: SNCC

Test Date: 11/13/12

Tester: Jim Fanning/Andy Knudsen

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	12:22:32	125.90	12:27:40	275.20	12:32:39	423.20
Run 2	12:52:31	125.60	12:57:37	274.80	13:02:37	423.60
Run 3	13:22:30	125.50	13:27:29	274.90	13:32:36	423.20
Avg. Monitor Response		125.667		274.967		423.333
Linearity Error		1.3		0.0		1.3
Absolute Difference		1.7		0.0		5.7
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS | Cal. Gas Concentration - Avg. Monitor Response |} \times 100}{\text{Cal. Gas Concentration}}$$

$$\text{Absolute Difference} = \text{ABS | Cal. Gas Concentration - Avg. Monitor Response |}$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature:



Print Name:

Andrew D. Knudsen

Technician/Service Representative



# Linearity Test Report - 2012Q4

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 1 SO2 High Audit Test Results Analyzer Span: 2000.0 ppm

Mfr & Model: Thermo 43i

Serial Number: 0622717877

Low-Level Calibration Gas  
(20-30% of Span)  
( 400.00 ppm - 600.00 ppm)

Concentration: 498.10  
Cylinder No.: XC009831B  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SC2

Mid-Level Calibration Gas  
(50-60% of Span)  
( 1000.0 ppm - 1200.0 ppm)

Concentration: 1099.0  
Cylinder No.: CC151205  
Expiration Date: 11/16/14

Vendor ID: B62011  
Gas Type Code: SC2

High-Level Calibration Gas  
(80-100% of Span)  
( 1600.0 ppm - 2000.0 ppm)

Concentration: 1717.0  
Cylinder No.: XC008354B  
Expiration Date: 09/25/20

Vendor ID: B62012  
Gas Type Code: SC2

Test Date: 11/13/12

Tester: James Fanning/AndyKnudsen

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	14:22:40	500.40	14:27:39	1101.8	14:32:39	1706.6
Run 2	14:52:29	499.20	14:57:35	1100.0	15:02:36	1708.8
Run 3	15:22:40	502.40	15:27:32	1102.2	15:32:40	1704.6
Avg. Monitor Response		500.667		1101.33		1706.67
Linearity Error		0.5		0.2		0.6
Absolute Difference		2.6		2.3		10.3
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} |}{\text{Cal. Gas Concentration}} \times 100$$

$$\text{Absolute Difference} = \text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} |$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature: \_\_\_\_\_

*Andy Knudsen* FOR

Print Name: \_\_\_\_\_

ANDY KNUDSEN

Technician/Service Representative

# Linearity Test Report - 2012Q4

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 1 SO2 Low Audit Test Results Analyzer Span: 200.00 ppm

Mfr & Model: Thermo 43i

Serial Number: 0622717877

Low-Level Calibration Gas  
(20-30% of Span)  
( 40.000 ppm - 60.000 ppm)

Concentration: 49.380  
Cylinder No.: CC27079  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

Mid-Level Calibration Gas  
(50-60% of Span)  
( 100.00 ppm - 120.00 ppm)

Concentration: 108.30  
Cylinder No.: CC214741  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

High-Level Calibration Gas  
(80-100% of Span)  
( 160.00 ppm - 200.00 ppm)

Concentration: 177.10  
Cylinder No.: CC124822  
Expiration Date: 03/23/14

Vendor ID: B62012  
Gas Type Code: SNCC

Test Date: 11/13/12

Tester: James Fanning/Andy Knudsen

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	12:22:32	50.500	12:27:40	110.40	12:32:39	179.00
Run 2	12:52:31	51.400	12:57:37	111.50	13:02:37	177.60
Run 3	13:22:30	51.600	13:27:29	111.10	13:32:36	177.80
Avg. Monitor Response		51.167		111.000		178.133
Linearity Error		3.6		2.5		0.6
Absolute Difference		1.8		2.7		1.0
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} |}{\text{Cal. Gas Concentration}} \times 100$$

$$\text{Absolute Difference} = \text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} |$$

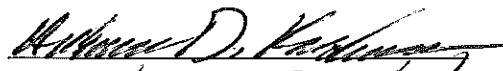
Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature:



Print Name:

Andrew D. Knudsen  
Technician/Service Representative

# Linearity Test Report - 2012Q4

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 1 CO2 Audit Test Results Analyzer Span: 20.000 %

Mfr & Model: Thermo 410i

Serial Number: 0622717869

Low-Level Calibration Gas  
(20-30% of Span)  
( 4.000 % - 6.000 %)

Concentration: 5.550  
Cylinder No.: CC27079  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

Mid-Level Calibration Gas  
(50-60% of Span)  
( 10.000 % - 12.000 %)

Concentration: 11.020  
Cylinder No.: CC214741  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

High-Level Calibration Gas  
(80-100% of Span)  
( 16.000 % - 20.000 %)

Concentration: 17.060  
Cylinder No.: CC124822  
Expiration Date: 03/23/14

Vendor ID: B62012  
Gas Type Code: SNCC

Test Date: 11/13/12

Tester: James Fanning/Andy Knudse

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	12:22:32	5.530	12:27:40	11.090	12:32:39	17.020
Run 2	12:52:31	5.560	12:57:37	11.090	13:02:37	17.020
Run 3	13:22:30	5.550	13:27:29	11.080	13:32:36	17.010
Avg. Monitor Response		5.547		11.087		17.017
Linearity Error		0.1		0.6		0.3
Absolute Difference		0.0		0.1		0.0
Test Status		Pass		Pass		Pass

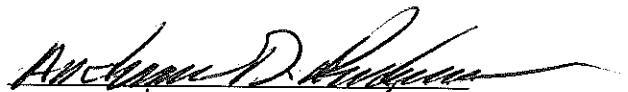
$$\text{Linearity Error} = \frac{\text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} |}{\text{Cal. Gas Concentration}} \times 100$$

$$\text{Absolute Difference} = \text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} |$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm  
Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %  
Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature:



Print Name:

Andrew D. Knudsen

Technician/Service Representative

TESFiler0002376

# CGA Test Report - 2012Q4

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 1 Inlet SO2 Audit Test Results Analyzer Span: 2000.0 ppm

Mfr & Model: Thermo 43i

Serial Number: 0622717879

Low-Level Calibration Gas Concentration: 498.1  
(20-30% of Span) Cylinder No.: XC009831B  
( 400.0 ppm - 600.0 ppm) Expiration Date: 11/16/13

Mid-Level Calibration Gas Concentration: 1099.0  
(50-60% of Span) Cylinder No.: CC151205  
( 1000.0 ppm - 1200.0 ppm) Expiration Date: 11/16/14

Test Date: 11/13/12

Tester: James Fanning/Andrew Knud

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	17:23:33	500.4	17:29:38	1103.4
Run 2	17:41:41	504.0	17:47:39	1099.8
Run 3	18:09:36	504.0	18:15:41	1097.2
Avg. Monitor Response		502.8		1100.1
Calibration Error		0.9		0.1
Absolute Difference		4.7		1.1
Test Status		Pass		Pass

$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response} - \text{Cal. Gas Concentration}}{\text{Cal. Gas Concentration}} \times 100$$

I have personally performed this Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F, Section 5.1.2 and attest that the recorded information on this document is true, accurate, and complete.

Signature:



Print Name:



Technician/Service Representative

# CGA Test Report - 2012Q4

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 1 Inlet CO2 Audit Test Results Analyzer Span: 20.00 %

Mfr & Model: Thermo 410i

Serial Number: 0622717873

Low-Level Calibration Gas Concentration: 5.69  
(5.00% - 8.00%) Cylinder No.: XC009831B  
Expiration Date: 11/16/13

Mid-Level Calibration Gas Concentration: 11.05  
(10.00% - 14.00%) Cylinder No.: CC151205  
Expiration Date: 11/16/14

Test Date: 11/13/12

Tester: James Fanning/Andrew Knud

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	17:23:33	5.74	17:29:38	11.06
Run 2	17:41:41	5.74	17:47:39	11.08
Run 3	18:09:36	5.73	18:15:41	11.03
Avg. Monitor Response		5.74		11.06
Calibration Error		0.9		0.1
Absolute Difference		0.05		0.01
Test Status		Pass		Pass

$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response} - \text{Cal. Gas Concentration}}{\text{Cal. Gas Concentration}} \times 100$$

I have personally performed this Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F, Section 5.1.2 and attest that the recorded information on this document is true, accurate, and complete.

Signature:



Print Name:

Andrew D. Knudsen

Technician/Service Representative

## CGA Test Report - 2012Q4

Facility Name: TES Filer City Station

Location: Filer City, MI

Blr 1 CO High Audit Test Results

Analyzer Span: 3000.00 ppm

Mfr & Model: Thermo 48l

Serial Number: 0622717887

Low-Level Calibration Gas  
(20-30% of Span)  
(600.00 ppm - 900.00 ppm)

Concentration: 735.70  
Cylinder No: XC009831B  
Expiration Date: 11/16/13

Mid-Level Calibration Gas  
(50-60% of Span)  
(1500.00 ppm - 1800.00 ppm)

Concentration: 1639.00  
Cylinder No: CC151205  
Expiration Date: 11/16/14

Test Date:

11/13/12

Tester(s) James Fanning/Andy Knudsen

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	14:22:32	736.1	14:27:39	1643.70
Run 2	14:52:37	737.4	14:57:35	1643.30
Run 3	15:22:33	738.3	13:27:36	1645.40
Avg. Monitor Response		737.3		1644.1
Absolute Difference		1.6		5.1
Calibration Error		0.21		0.31
Test Status		Pass		Pass

$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response} - \text{Cal. Gas Concentration} \times 100}{\text{Cal. Gas Concentration}}$$

I have personally performed the Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F Section 5.1.2 and attest that the recorded information on this document is true, accurate and complete.

Signature:

 FOR

Print Name:

ANDY KNUDSEN

Technician/Service Representative

## CGA Test Report - 2012Q4

Facility Name: TES Filer City Station

Location: Filer City, MI

Blr 1 CO Low Audit Test Results

Analyzer Span: 300.00 ppm

Mfr & Model: Thermo 48l

Serial Number: 0622717887

Low-Level Calibration Gas  
(20-30% of Span)  
(60.00 ppm - 90.00 ppm)

Concentration: 74.5  
Cylinder No: CC27079  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

Mid-Level Calibration Gas  
(50-60% of Span)  
(150.00 ppm - 180.00 ppm)

Concentration: 164.0  
Cylinder No: CC214741  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

Test Date: 11/13/12

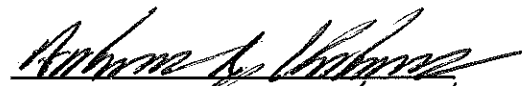
Tester(s) James Fanning/Andy Knudson

	Low		High	
	Time	Monitor Value	Time	Monitor Value
Run 1	12:22:32	74.6	12:27:40	164.8
Run 2	12:52:31	76.8	12:57:37	165.0
Run 3	13:22:30	73.9	13:27:29	164.5
Avg. Monitor Response		75.1		164.8
Absolute Difference		0.6		0.8
Calibration Error		0.81		0.47
Test Status		Pass		Pass

$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response} - \text{Cal. Gas Concentration} \times 100}{\text{Cal. Gas Concentration}}$$

I have personally performed the Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F Section 5.1.2 and attest that the recorded information on this document is true, accurate and complete.

Signature:



Print Name:

Andrew D. Knudson

Technician/Service Representative

# Linearity Test Report - 2012Q4

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 2 NOx High Audit Test Results Analyzer Span: 500.00 ppm

Mfr & Model: Thermo 42i

Serial Number: 0623017967

Low-Level Calibration Gas  
(20-30% of Span)  
( 100.00 ppm - 150.00 ppm)

Concentration: 124.00  
Cylinder No.: CC27079  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

Mid-Level Calibration Gas  
(50-60% of Span)  
( 250.00 ppm - 300.00 ppm)

Concentration: 275.00  
Cylinder No.: CC214741  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

High-Level Calibration Gas  
(80-100% of Span)  
( 400.00 ppm - 500.00 ppm)

Concentration: 429.00  
Cylinder No.: CC124822  
Expiration Date: 03/23/14

Vendor ID: B62012  
Gas Type Code: SNCC

Test Date: 11/14/12

Tester: James Fanning/Andrew Knud

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	10:26:38	126.20	10:31:46	285.40	10:36:47	426.50
Run 2	10:52:32	126.50	10:57:34	274.10	11:02:41	421.20
Run 3	11:22:34	125.80	11:27:42	275.70	11:32:42	424.20
Avg. Monitor Response		126.167		278.400		423.967
Linearity Error		1.7		1.2		1.2
Absolute Difference		2.2		3.4		5.0
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} | \times 100}{\text{Cal. Gas Concentration}}$$

$$\text{Absolute Difference} = \text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} |$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature:

Print Name:

Andrew J. Knud  
Technician/Service Representative



# Linearity Test Report - 2012Q4

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 2 SO2 High Audit Test Results Analyzer Span: 2000.0 ppm

Mfr & Model: Thermo 43i

Serial Number: 0622717880

Low-Level Calibration Gas  
(20-30% of Span)  
( 400.00 ppm - 600.00 ppm)

Concentration: 498.10  
Cylinder No.: XC009831B  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SC2

Mid-Level Calibration Gas  
(50-60% of Span)  
( 1000.0 ppm - 1200.0 ppm)

Concentration: 1099.0  
Cylinder No.: CC151205  
Expiration Date: 11/16/14

Vendor ID: B62011  
Gas Type Code: SC2

High-Level Calibration Gas  
(80-100% of Span)  
( 1600.0 ppm - 2000.0 ppm)

Concentration: 1717.0  
Cylinder No.: XC008354B  
Expiration Date: 09/25/20

Vendor ID: B62012  
Gas Type Code: SC2

Test Date: 11/14/12

Tester: James Fanning/Andrew Knud

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	12:22:39	505.20	12:27:46	1105.6	12:32:46	1710.0
Run 2	12:52:34	502.60	12:57:33	1111.0	13:02:34	1708.6
Run 3	13:22:36	506.40	13:27:43	1106.2	13:32:44	1702.4
Avg. Monitor Response		504.733		1107.60		1707.00
Linearity Error		1.3		0.8		0.6
Absolute Difference		6.6		8.6		10.0
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} |}{\text{Cal. Gas Concentration}} \times 100$$

$$\text{Absolute Difference} = \text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} |$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature:



Print Name:

Andrew D. Knudsen  
Technician/Service Representative

# Linearity Test Report - 2012Q4

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 2 SO2 Low Audit Test Results Analyzer Span: 200.00 ppm

Mfr & Model: Thermo 43i

Serial Number: 0622717880

Low-Level Calibration Gas  
(20-30% of Span)  
( 40.000 ppm - 60.000 ppm)

Concentration: 49.400  
Cylinder No.: CC27079  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

Mid-Level Calibration Gas  
(50-60% of Span)  
( 100.00 ppm - 120.00 ppm)

Concentration: 108.30  
Cylinder No.: CC214741  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

High-Level Calibration Gas  
(80-100% of Span)  
( 160.00 ppm - 200.00 ppm)

Concentration: 177.10  
Cylinder No.: CC124822  
Expiration Date: 03/23/14

Vendor ID: B62012  
Gas Type Code: SNCC

Test Date: 11/14/12

Tester: James Fanning/Andrew knud

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	10:26:38	50.300	10:31:46	108.40	10:36:47	178.30
Run 2	10:52:32	51.000	10:57:34	110.10	11:02:41	176.30
Run 3	11:22:34	50.700	11:27:42	109.40	11:32:42	178.00
Avg. Monitor Response		50.667		109.300		177.533
Linearity Error		2.6		0.9		0.2
Absolute Difference		1.3		1.0		0.4
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} |}{\text{Cal. Gas Concentration}} \times 100$$

$$\text{Absolute Difference} = \text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} |$$

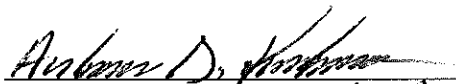
Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature:



Print Name:

Andrew D. Knudsen  
Technician/Service Representative

# Linearity Test Report - 2012Q4

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 2 CO2 Audit Test Results Analyzer Span: 20.000 %

Mfr & Model: Thermo 410i

Serial Number: 0622717874

Low-Level Calibration Gas  
(20-30% of Span)  
( 4.000 % - 6.000 %)

Concentration: 5.550  
Cylinder No.: CC27079  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

Mid-Level Calibration Gas  
(50-60% of Span)  
( 10.000 % - 12.000 %)

Concentration: 11.020  
Cylinder No.: CC214741  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

High-Level Calibration Gas  
(80-100% of Span)  
( 16.000 % - 20.000 %)

Concentration: 17.060  
Cylinder No.: CC124822  
Expiration Date: 03/23/14

Vendor ID: B62012  
Gas Type Code: SNCC

Test Date: 11/14/12

Tester: James Fanning/Andrew Knud

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	10:26:38	5.570	10:31:46	11.080	10:36:47	17.100
Run 2	10:52:32	5.620	10:57:34	11.120	11:02:41	17.030
Run 3	11:22:34	5.620	11:27:42	11.110	11:32:42	17.040
Avg. Monitor Response		5.603		11.103		17.057
Linearity Error		1.0		0.8		0.0
Absolute Difference		0.1		0.1		0.0
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS | Cal. Gas Concentration - Avg. Monitor Response |} \times 100}{\text{Cal. Gas Concentration}}$$

$$\text{Absolute Difference} = \text{ABS | Cal. Gas Concentration - Avg. Monitor Response |}$$

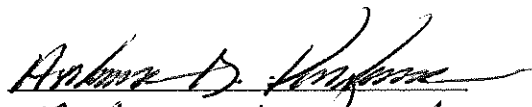
Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature:



Print Name:

Andrew D. Knudsen  
Technician/Service Representative

# CGA Test Report - 2012Q4

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 2 Inlet SO2 Audit Test Results Analyzer Span: 2000.0 ppm

Mfr & Model: Thermo 43i

Serial Number: 0622717883

Low-Level Calibration Gas Concentration: 498.1  
(20-30% of Span) Cylinder No.: XC009831B  
( 400.0 ppm - 600.0 ppm) Expiration Date: 11/16/13

Mid-Level Calibration Gas Concentration: 1099.0  
(50-60% of Span) Cylinder No.: CC151205  
( 1000.0 ppm - 1200.0 ppm) Expiration Date: 11/16/14

Test Date: 11/15/12

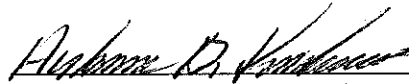
Tester: James Fanning/Andrew Knud

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	08:23:40	500.2	08:29:43	1094.4
Run 2	08:49:37	501.4	08:55:37	1092.8
Run 3	09:09:39	500.8	09:15:37	1085.6
Avg. Monitor Response		500.8		1090.9
Calibration Error		0.5		-0.7
Absolute Difference		2.7		8.1
Test Status		Pass		Pass

$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response} - \text{Cal. Gas Concentration}}{\text{Cal. Gas Concentration}} \times 100$$

I have personally performed this Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F, Section 5.1.2 and attest that the recorded information on this document is true, accurate, and complete.

Signature:



Print Name:

Andrew D. Knudsen

Technician/Service Representative

# CGA Test Report - 2012Q4

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 2 Inlet CO2 Audit Test Results Analyzer Span: 20.00 %

Mfr & Model: Thermo 410i

Serial Number: 0622717875

Low-Level Calibration Gas Concentration: 5.69  
(5.00% - 8.00%) Cylinder No.: XC009831B  
Expiration Date: 11/16/13

Mid-Level Calibration Gas Concentration: 11.05  
(10.00% - 14.00%) Cylinder No.: CC151205  
Expiration Date: 11/16/14

Test Date: 11/15/12

Tester: James Fanning/Andrew Knud

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	08:23:40	5.69	08:29:43	11.03
Run 2	08:49:37	5.69	08:55:37	11.04
Run 3	09:09:39	5.70	09:15:37	11.01
Avg. Monitor Response		5.69		11.03
Calibration Error		0.0		-0.2
Absolute Difference		0.00		0.02
Test Status		Pass		Pass

$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response} - \text{Cal. Gas Concentration}}{\text{Cal. Gas Concentration}} \times 100$$

I have personally performed this Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F, Section 5.1.2 and attest that the recorded information on this document is true, accurate, and complete.

Signature:



Print Name:

Andrew D. Knudsen

Technician/Service Representative

## CGA Test Report - 2012Q4

Facility Name: TES Filer City Station

Location: Filer City, MI

Blr 2 CO High Audit Test Results

Analyzer Span: 3000.00 ppm

Mfr & Model: Thermo 48l

Serial Number: 0622717888

Low-Level Calibration Gas  
(20-30% of Span)  
(600.00 ppm - 900.00 ppm)

Concentration: 735.70  
Cylinder No: XC0098318  
Expiration Date: 11/16/13

Mid-Level Calibration Gas  
(50-60% of Span)  
(1500.00 ppm - 1800.00 ppm)

Concentration: 1639.00  
Cylinder No: CC151205  
Expiration Date: 11/16/14

Test Date: 11/14/12

Tester(s) James Fanning/Andy Knudsen

		Low		Mid	
		Time	Monitor Value	Time	Monitor Value
Run 1		12:22:39	737.5	12:27:38	1640.10
Run 2		12:52:40	738.8	12:57:41	1645.10
Run 3		13:22:36	737.1	13:27:36	1639.40
Avg. Monitor Response			737.8		1641.5
Absolute Difference			2.1		2.5
Calibration Error			0.29		0.15
Test Status			Pass		Pass

$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response} - \text{Cal. Gas Concentration} \times 100}{\text{Cal. Gas Concentration}}$$

I have personally performed the Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F Section 5.1.2 and attest that the recorded information on this document is true, accurate and complete.

Signature:

 FOR

Print Name:

ANDY KNUDSEN

Technician/Service Representative

## CGA Test Report - 2012Q4

Facility Name: TES Filer City Station

Location: Filer City, MI

Blr 2 CO Low Audit Test Results

Analyzer Span: 300.00 ppm

Mfr & Model: Thermo 48i

Serial Number: 0622717888

Low-Level Calibration Gas  
(20-30% of Span)  
(60.00 ppm - 90.00 ppm)

Concentration: 74.5  
Cylinder No: CC27079  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

Mid-Level Calibration Gas  
(50-60% of Span)  
(150.00 ppm - 180.00 ppm)

Concentration: 164.0  
Cylinder No: CC214741  
Expiration Date: 11/16/13

Vendor ID: B62011  
Gas Type Code: SNCC

Test Date: 11/14/12

Tester(s) James Fanning/Andy Knudson

	Low		High	
	Time	Monitor Value	Time	Monitor Value
Run 1	10:26:38	74.6	10:31:46	163.6
Run 2	10:52:32	76.0	10:57:34	165.0
Run 3	11:22:34	74.3	11:27:42	164.6
Avg. Monitor Response		75.0		164.4
Absolute Difference		0.5		0.4
Calibration Error		0.63		0.24
Test Status		Pass		Pass

$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response} - \text{Cal. Gas Concentration} \times 100}{\text{Cal. Gas Concentration}}$$

I have personally performed the Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F Section 5.1.2 and attest that the recorded information on this document is true, accurate and complete.

Signature:



Print Name:

Andrew D. Knudson

Technician/Service Representative

## CERTIFICATE OF ANALYSIS

### Grade of Product: EPA Protocol

Customer: LANSING  
Part Number: E05NI94E15A0008  
Cylinder Number: CC27079  
Laboratory: MIC - Royal Oak-32 (SAP) - MI  
PGVP Number: B62011  
Reference Number: 32-400026874-1  
Cylinder Volume: 147 Cu.Ft.  
Cylinder Pressure: 2015 PSIG  
Valve Outlet: 660  
Analysis Date: Nov 16, 2011

Expiration Date: Nov 16, 2013

Certification performed in accordance with 'EPA Traceability Protocol (Sept. 1997)' using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.  
Do Not Use This Cylinder below 150 psig, i.e., 1 Mega Pascal

#### ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
SULFUR DIOXIDE	50.00 PPM	49.38 PPM	G1	+/- 1% NIST Traceable
CARBON MONOXIDE	75.00 PPM	74.49 PPM	G1	+/- 1% NIST Traceable
NITRIC OXIDE	125.0 PPM	124.0 PPM	G1	+/- 1% NIST Traceable
CARBON DIOXIDE	5.500 %	5.549 %	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

Total oxides of nitrogen 124.1 PPM For Reference Only

#### CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	9060606	CC262087	9.921% CARBON DIOXIDE/NITROGEN	Apr 10, 2013
NTRM	09060503	CC280417	98.88PPM CARBON MONOXIDE/NITROGEN	Feb 01, 2013
NTRM	11060215	CC281048	49.67PPM SULFUR DIOXIDE/NITROGEN	May 13, 2017
NTRM	11060139	CC332059	248.4PPM NITRIC OXIDE/NITROGEN	Jan 11, 2017

#### ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, 10% CO <sub>2</sub> , Nicolet 6700	Fourier Transform Infrared (FTIR)	Oct 28, 2011
E/N 173, 100ppmFS CO/N <sub>2</sub> , Siemens Ultramat 6	Nondispersive Infrared (NDIR)	Oct 27, 2011
E/N 54, 250ppmFS NO, Nicolet 6700	Fourier Transform Infrared (FTIR)	Nov 11, 2011
E/N 54, 100ppmFS SO <sub>2</sub> , Nicolet 6700	Fourier Transform Infrared (FTIR)	Nov 11, 2011

Triad Data Available Upon Request

Notes:

*A. T. Muhammad*



## CERTIFICATE OF ANALYSIS

### Grade of Product: EPA Protocol

Airgas Great Lakes

2009 Bellaire Ave.  
Royal Oak, MI 48067-8020  
www.airgas.com

Customer: LANSING  
Part Number: E05NI88E15A0016  
Cylinder Number: CC214741  
Laboratory: MIC - Royal Oak-32 (SAP) - MI  
PGVP Number: B62011  
Reference Number: 32-400026873-1  
Cylinder Volume: 151 Cu.Ft.  
Cylinder Pressure: 2015 PSIG  
Valve Outlet: 660  
Analysis Date: Nov 16, 2011

Expiration Date: Nov 16, 2013

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.  
Do Not Use This Cylinder below 150 psig, i.e. 1 Mega Pascal

ANALYTICAL RESULTS				
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
SULFUR DIOXIDE	110.0 PPM	108.3 PPM	G1	+/- 1% NIST Traceable
CARBON MONOXIDE	165.0 PPM	164.0 PPM	G1	+/- 1% NIST Traceable
NITRIC OXIDE	275.0 PPM	275.0 PPM	G1	+/- 1% NIST Traceable
CARBON DIOXIDE	11.00 %	11.02 %	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

Total oxides of nitrogen

275.0 PPM

For Reference Only

CALIBRATION STANDARDS				
Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	08060311	CC254643	250.0PPM CARBON MONOXIDE/NITROGEN	May 15, 2012
NTRM	08061635	CC255794	247.0PPM SULFUR DIOXIDE/NITROGEN	Oct 15, 2012
NTRM	9060606	CC262087	9.921% CARBON DIOXIDE/NITROGEN	Apr 10, 2013
NTRM	10060421	CC268177	495.6PPM NITRIC OXIDE/NITROGEN	Feb 01, 2016

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, 20% FS CO <sub>2</sub> , Nicolet 6700	Fourier Transform Infrared (FTIR)	Oct 28, 2011
E/N 173, 250ppmFS CO, Siemens	Nondispersive Infrared (NDIR)	Nov 15, 2011
E/N 54, 1000 ppmFS NO, Nicolet 6700	Fourier Transform Infrared (FTIR)	Nov 11, 2011
E/N 54, 1000ppmFS SO <sub>2</sub> , Nicolet 6700	Fourier Transform Infrared (FTIR)	Nov 11, 2011

Triad Data Available Upon Request

Notes:

SPAN  
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## CERTIFICATE OF ANALYSIS

### Grade of Product: EPA Protocol

**Airgas USA, LLC**

2009 Bellaire Ave.  
Royal Oak, MI 48067-8020  
248-399-8020  
www.airgas.com

Customer: TES FILER CITY STATION  
Part Number: E05NI82E15A0001  
Cylinder Number: CC124822  
Laboratory: MIC - Royal Oak-32 (SAP) - MI  
PGVP Number: B62012

Reference Number: 32-400044054-1A  
Cylinder Volume: 155 Cu.Ft.  
Cylinder Pressure: 2015 PSIG  
Valve Outlet: 660  
Analysis Date: Mar 23, 2012

**Expiration Date: Mar 23, 2014**

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.  
Do Not Use This Cylinder below 150 psig, i.e. 1 Mega Pascal

### ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
SULFUR DIOXIDE	170.0 PPM	177.1 PPM	G1	+/- 1% NIST Traceable
CARBON MONOXIDE	255.0 PPM	258.2 PPM	G1	+/- 1% NIST Traceable
NITRIC OXIDE	425.0 PPM	429.0 PPM	G1	+/- 1% NIST Traceable
CARBON DIOXIDE	17.00 %	17.06 %	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

Total oxides of nitrogen 429.1 PPM For Reference Only

### CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	08061631	CC255680	247.0PPM SULFUR DIOXIDE/NITROGEN	Oct 15, 2012
NTRM	10060417	CC268105	495.6PPM NITRIC OXIDE/NITROGEN	Feb 01, 2016
NTRM	120603	CC353943	249.3PPM CARBON MONOXIDE/NITROGEN	Oct 26, 2017
NTRM	00040510	SG9150788	17.43% CARBON DIOXIDE/NITROGEN	Oct 05, 2017

### ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, 20% FS CO <sub>2</sub> , Nicolet 6700	Fourier Transform Infrared (FTIR)	Feb 17, 2012
E/N 173, 250ppmFS CO, Siemens	Nondispersive Infrared (NDIR)	Mar 23, 2012
E/N 54, 1000 ppmFS NO, Nicolet 6700	Fourier Transform Infrared (FTIR)	Mar 22, 2012
E/N 54, 250ppmFS SO <sub>2</sub> , Nicolet 6700	Fourier Transform Infrared (FTIR)	Mar 22, 2012

Triad Data Available Upon Request

Notes:

AFM



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## Airgas Great Lakes

2009 Bellaire Ave.  
Royal Oak, MI 48067-8020  
www.airgas.com

# CERTIFICATE OF ANALYSIS

## Grade of Product: EPA Protocol

Customer: LANSING  
Part Number: E04NI94E15A0013  
Cylinder Number: XC009831B  
Laboratory: MIC - Royal Oak-32 (SAP) - MI  
PGVP Number: B62011

Reference Number: 32-400026870-1  
Cylinder Volume: 147 Cu.Ft.  
Cylinder Pressure: 2015 PSIG  
Valve Outlet: 660  
Analysis Date: Nov 16, 2011

Expiration Date: Nov 16, 2013

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.  
Do Not Use This Cylinder below 150 psig i.e. 1 Mega Pascal

**ANALYTICAL RESULTS**

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
SULFUR DIOXIDE	500.0 PPM	498.1 PPM	G1	+/- 1% NIST Traceable
CARBON MONOXIDE	750.0 PPM	735.7 PPM	G1	+/- 1% NIST Traceable
CARBON DIOXIDE	5.500 %	5.692 %	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

**CALIBRATION STANDARDS**

Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	0906006	CC262087	9.921% CARBON DIOXIDE/NITROGEN	Apr 10, 2013
NTRM	09060421	CC286588	501.3PPM CARBON MONOXIDE/NITROGEN	Feb 01, 2013
NTRM	09061013	CC300405	479.5PPM SULFUR DIOXIDE/NITROGEN	May 15, 2015

**ANALYTICAL EQUIPMENT**

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, 10% CO2, Nicolet 6700	Fourier Transform Infrared (FTIR)	Oct 28, 2011
E/N 173, 5000ppmFS CO, Siemens Ultramat 6	Nondispersive Infrared (NDIR)	Oct 27, 2011
E/N 54, 1000ppmFS SO2, Nicolet 6700	Fourier Transform Infrared (FTIR)	Nov 11, 2011

Triad Data Available Upon Request

Notes:

A. F. Muhammad  
Approved for Release

## Airgas Great Lakes

2009 Bellaire Ave.  
Royal Oak, MI 48067-8020  
www.airgas.com

CERTIFICATE OF ANALYSIS  
Grade of Product: EPA Protocol

Customer: LANSING  
Part Number: E04NI88E15A1FJ0  
Cylinder Number: CC151205  
Laboratory: MIC - Royal Oak-32 (SAP) - MI  
PGVP Number: B62011

Reference Number: 32-400026871-1  
Cylinder Volume: 151 Cu.Ft.  
Cylinder Pressure: 2015 PSIG  
Valve Outlet: 660  
Analysis Date: Nov 16, 2011

Expiration Date: Nov 16, 2014

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.  
Do Not Use This Cylinder below 150 psig, i.e. 1 Mega Pascal

ANALYTICAL RESULTS				
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
SULFUR DIOXIDE	1100 PPM	1099 PPM	G1	+/- 1% NIST Traceable
CARBON MONOXIDE	1650 PPM	1639 PPM	G1	+/- 1% NIST Traceable
CARBON DIOXIDE	11.00 %	11.05 %	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

CALIBRATION STANDARDS				
Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	0712609	CC239950	2478PPM SULFUR DIOXIDE/NITROGEN	Mar 23, 2017
NTRM	9060606	CC262087	9.921% CARBON DIOXIDE/NITROGEN	Apr 10, 2013
NTRM	020502	SG9161128BAL	1488PPM CARBON MONOXIDE/NITROGEN	May 15, 2012

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, 20% FS CO <sub>2</sub> , Nicolet 6700	Fourier Transform Infrared (FTIR)	Oct 28, 2011
E/N 173, 5000ppmFS CO, Siemens Ultramat 6	Nondispersive Infrared (NDIR)	Oct 27, 2011
E/N 54, 4800ppmFS SO <sub>2</sub> , Nicolet 6700	Fourier Transform Infrared (FTIR)	Nov 11, 2011

Triad Data Available Upon Request

Notes:

A. F. Muhammad

Approved for Release

SPAN 6

## CERTIFICATE OF ANALYSIS

### Grade of Product: EPA Protocol

Airgas USA, LLC  
2009 Bellaire Ave.  
Royal Oak, MI 48067-8020  
248-399-8020  
www.airgas.com

Customer: TES FILER CITY STATION  
Part Number: E04NI82E15A3LD7  
Cylinder Number: XC008354B  
Laboratory: MIC - Royal Oak-32 (SAP) - MI  
PGVP Number: B62012

Reference Number: 32-400092928-1  
Cylinder Volume: 155 Cu.Ft.  
Cylinder Pressure: 2015 PSIG  
Valve Outlet: 660  
Analysis Date: Sep 25, 2012

Expiration Date: Sep 25, 2020

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.  
Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

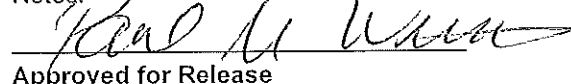
ANALYTICAL RESULTS				
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
SULFUR DIOXIDE	1700 PPM	1717 PPM	G1	+/- 1% NIST Traceable
CARBON MONOXIDE	2550 PPM	2499 PPM	G1	+/- 1% NIST Traceable
CARBON DIOXIDE	17.00 %	17.04 %	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

CALIBRATION STANDARDS				
Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	12061523	CC354781	19.87% CARBON DIOXIDE/NITROGEN	Jan 27, 2018
NTRM	12060715	CC356042	2498PPM CARBON MONOXIDE/NITROGEN	Dec 21, 2017
NTRM	97040304	CC66837	2349PPM SULFUR DIOXIDE/NITROGEN	Oct 05, 2017

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, 20% FS CO <sub>2</sub> , Nicolet 6700	Fourier Transform Infrared (FTIR)	Aug 31, 2012
E/N 173, 5000ppmFS CO, Siemens Ultramat 6	Nondispersive Infrared (NDIR)	Sep 06, 2012
E/N 54, 4800ppmFS SO <sub>2</sub> , Nicolet 6700	Fourier Transform Infrared (FTIR)	Sep 05, 2012

Triad Data Available Upon Request

Notes:

  
Approved for Release